

RAPOPORT, R.I.; KOKOVIKHINA, K.I.; VARSHAVER, N.B.; YERMAKOVA, M.N.; KOLESOV, I.M.; ROZINA, N.Ye.

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Cultivation of a strain of diploid cells of the lungs of a human embryo. Vop. virus. 10 no.2:187-191 Mr-Ap 65.

(MIRA 18:10)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

20951 8/079/61/051/004/005/006 B118/B208

5.3700 2209, 1274, 1282

AUTHORS: Andrianov, K.A., and Yermakova, M.N.

TITLE: Formation reactions of triethyl-siloxy-borosiloxanes

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PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 4, 1961, 1310 - 1312

TEXT: For the purpose of synthesizing triethyl-siloxy-diethoxy-boron, the authors of the present paper studied the reaction of triethyl-hydroxy-silane with boric acid ethyl ester. Experiments disclosed that tris-triethyl-siloxy-boron is formed even by reacting boric acid ethyl ester with triethyl-hydroxy-silane in a molar ratio; triethyl-siloxy-diethoxy-boron could not be separated. The latter is probably subjected to disproportionation during distillation, forming a stable compound, namely proportionation during distillation, forming a stable compound, namely trie-triethyl-siloxy-boron. In subsequent experiments, boric ester was first condensed with triethyl-hydroxy-silane, combined with a distillation of the alcohol separated during the reactions

 $2(\mathbf{c}_{2}\mathbf{H}_{5})_{3}\mathbf{S}\mathbf{10H} + \mathbf{B}(\mathbf{0}\mathbf{c}_{2}\mathbf{H}_{5})_{3} - \mathbf{B}(\mathbf{0}\mathbf{c}_{2}\mathbf{H}_{5})_{3}\mathbf{S}\mathbf{10})_{2}\mathbf{B}(\mathbf{0}\mathbf{c}_{2}\mathbf{H}_{5}) + 2\mathbf{c}_{2}\mathbf{H}_{5}\mathbf{0H}$ (1).

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Formation reactions of ...

Then, diethyl-diacetoxy-silane was added, and the reaction mixture heated again to expel the ethyl acetates

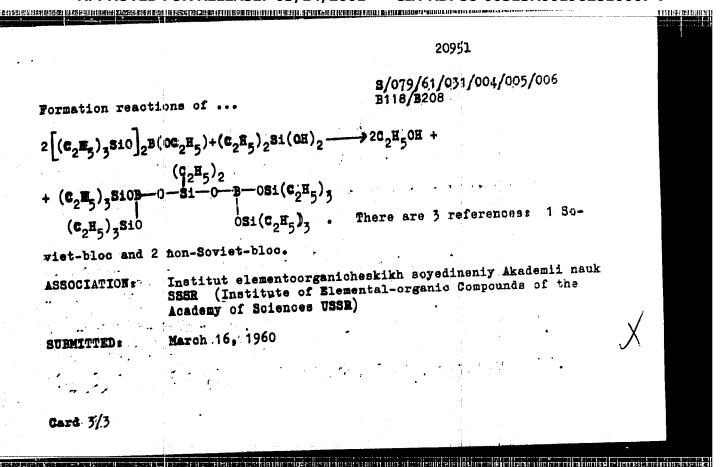
 $2\left((c_{2}H_{5})_{3}SiO\right)_{2}B(Oc_{2}H_{5})+(c_{2}H_{5})_{2}Si(OCOCH_{3})_{2}\longrightarrow 2c_{2}H_{5}OCOCH_{3}+$

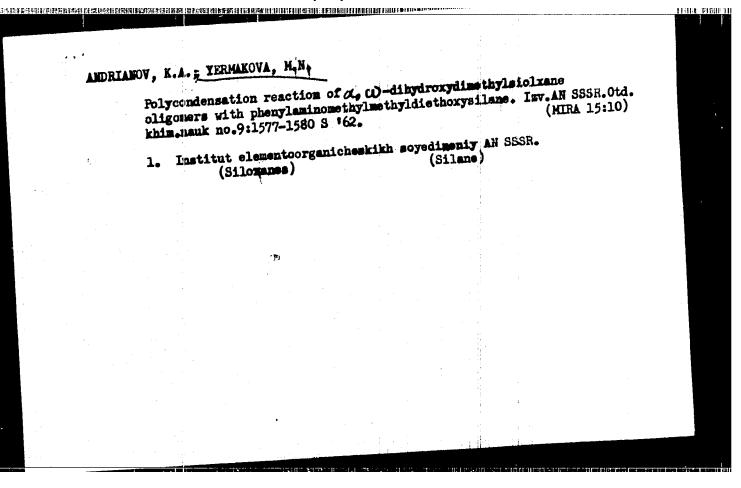
 $+(c_2H_5)_3$ SiO-B-O-Si-O-B-OSi(c_2H_5)₃ (2) (c_2H_5)₃SiO OSi(c_2H_5)₃ . Twofold v

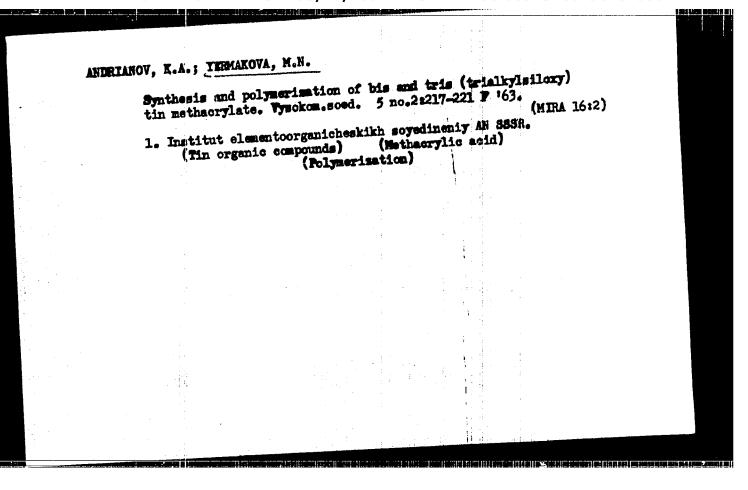
. Twofold vacuum distillation gave 1.5-

-bis(triethyl-siloxy-boro)-3-diethyl-diborosiloxane in a yield of 24.7%
1.5-bis(triethyl-siloxy-boro)-3-dimethyl-diborosiloxane is easily obtained according to reaction (2), if dimethyl-diacetoxy-silane is used instead of diethyl-diacetoxy-silane. Reaction of the condensation product of triethyl-hydroxy-silane with the boric ester of diethyl-silanediol gives also easily 1.5-bis(triethyl-siloxy-boro)-3-diethyl-diborosiloxane:

Card 2/3







ACCESSION NR: AP4025009

8/0062/64/000/003/0454/0457

AUTHOR: Andrianov, K. A.; Kusnetsova, I. K.; Yermakova, M. N.

TITLE: Polydimethylsiloxanes containing tris(trimethylsiloxy) and dimethylphosphinoxy terminal groups

SOURCE: AN SISR. Izv. Seriya khimicheskaya, no. 3, 1964, 454-457

TOPIC TAGS: liquid polydimethylsiloxane, terminal polymer group, tris(trimethylsiloxy) group, dimethylphosphinoxy group, viscous flow activation energy, polymer viscosity, polydimethylsiloxane viscosity, condensation synthesis, polymer synthesis, polymer molecule number

ABSTRACT: New liquid polydimethylsiloxanes containing the above terminal groups were synthesized by condensation of σ , ω -dihydroxydimethylsiloxanes with the dimethylethoxysilylmethyl ester of dimethylphosphinic acid or tris (triwith the dimethylethoxysilylmethyl ester of dimethylphosphinic acid or tris (trimethylsiloxy) ethoxysilane, and some of their properties (molecular weight, methylsiloxy) ethoxysilane, and some of their properties (molecular weight, methylsiloxy) ethoxysilane, activation energy) studied. The reaction formula is

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ACCESSION NR: AP4025009

presented and properties tabulated. In the end products, n, denoting the number of polymer molecules, was equal to 9, 13, 42, 45, 75 and 120. Viscosity in the 20-120C range was higher in polymers with terminal tris (trimethylsiloxy) groups than in those with the dimethylphosphinoxy group for the same degree of polymerization. The logarithm of viscosity, inversely dependent upon temperature, is also figured. The activation energy of viscous flow, calculated according to experimental data in the range studied, decreased upon increasing the distance between the terminal groups, which may point towards a comparatively great influence of these groups, as against that of the dimethylsiloxane groups of the backbone. The synthesis is described. Orig. art. has: 2 formulas, 2 tables and 4 figures.

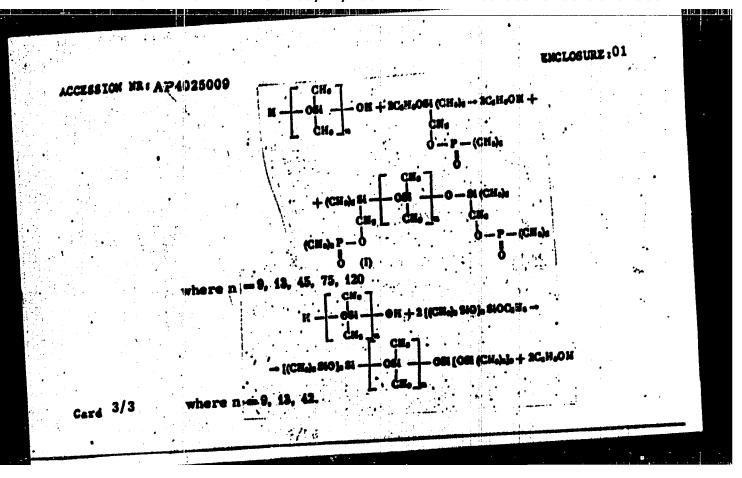
ASSOCIATION: Institut elementoorganicheskikh soedinenniy Akademii nauk SSSR Academy of Sciences, SSSR) (Institute of Organoelemental Compounds, ENCL: 01 DATE ACQ: 17Apr64

SUBMITTED: 100ct62 SUB CODE: CH

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OTHER: 001

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NOVIKOV, I.T.; PAVLENKO, A.S.; SMIRNOV, M.S.; CHIZHOV, D.G.; LAVRENENKO, K.D.; HEKRASOV, A.M.; HOSOV, R.P.; TARASOV, N.Ya.; ZHIMERIN, D.G. URORETS, I.I.; DMITRIYEV, I.I.; DEOBYSHEV, A.I.; YERMANDV, V.S.; SAPOZHNIKOV, F.V.; BOHOVOY, A.A.; BANWIK, V.P.; DASKOVSKIY, YA.M.; ROGOVIN, N.A.; PETROV, A.H.; MEL'NIKOV, B.V.; LATYSH, D.I.; KONIN, F.P.; DYDYKIN, P.Ye.; BONDAREV, I.I.; GUMENYUK, D.L.; POHEGAYLO, K.M.

Ol'ga Sergeevna Kalashnikova; obituary. Elek.sta. 30 no.2:95
F '59.

(Kalashnikova, Ol'ga Sergeevna, 1914)

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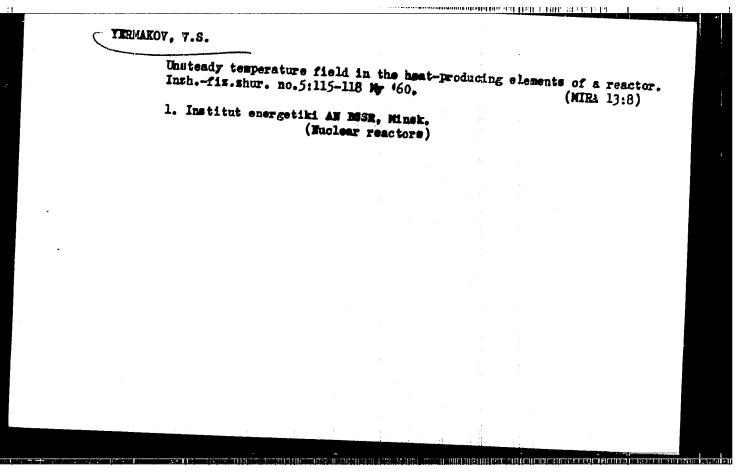
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Method for selecting a version for the introduction of new power into the power system. Elek. sta. 30 no.3:6-11 Mr 159.

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AUTHOR:

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Yermakov, V. S.

TITLE:

The Honsteady Temperature Field in Heat Liberating Reactor Elements

Inshenerno-fisicheskiy shurnal, 1960, Vol. 3, No. 4, pp. 127-131 PERIODICAL:

TEXT: Equation (2) for the heat conductivity of the fuel elements in the case of nonsteady operation of a nuclear reactor is written down (Ref. 3). The boundary conditions (3) and (4) for equation (2) are given and the solution of the latter under these boundary conditions yields formula (5). The function Q(z, t) must be known in order to calculate the integrals in formula (5). Q(z, r) stands for the specific power of the internal heat source. This function is determined by the propagation of neutrons in the core of the reactor. Formula (16) is derived for this function. This formula holds for supercritical reactor operation without consideration of the influence of the negative temperature coefficient. Formula (16) is substituted in formula (5) which yields formula (17). However, if $Q(z, \tau)$ varies with varying neutron flux according to formula (12) formula (18) is obtained. This is the case with the reactor being supercritical with respect to the delayed neutrons. The distribution of the mean temperature along the rod

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The Nonsteady Temperature Field in Heat Liberating

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of fuel elements at various moments in nonsteady reactor operation can be determined by means of formulas (17) and (18). L. S. Leybenson (Ref. 2) is

mentioned. There are 5 references, 4 of which are Soviet.

ASSOCIATION: Institut energetiki AN BSSR, 6. Minek (Institute of Power Engineering of the AS Belorusskaya BSR, CITY OF MINEK)

Card 2/2

8/170/60/003/010/022/023 B019/B054

AUTHORS:

Yermakov, V. S., Perel'man, T. L.

TITLE:

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Problems of Nuclear Physics (II All-Union Conference on Low- and Medium-energy Nuclear Reactions)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 10, PP- 139-143

TEXT: The II Vsesoyuznaya konferentsiya po yadernym reaktsiyam pri malykh i srednikh energiyakh (II All-Union Conference on Low- and Medium-energy Nuclear Reactions) was organized in Moscow by the AS USSR on July 21-28, 1960. I. M. Frank, Corresponding Member of the AS USSR, headed the organizing committee. In his opening speech, he pointed cut that the investigation of low-energy nuclear reactions quite naturally deals with the problems of nuclear structure. N. A. Vissov gave a survey of experimental investigations of systems containing less than eight nucleons in the nucleus. Among other things, this report dealt with the existence of a tetraneutron, the isotope H8, and some hydrogen isotopes, hs predicted by Ya. B. Zel'dovich, V. I. Gol'danskiy, and A. I. Baz'. A. I. Baz'

Problems of Nuclear Physics (II All-Union Conference on Low- and Medium-energy Nuclear B019/B054

gave a survey of theoretical investigations of these systems. He mentions the investigation of the three-particle problem for short-range forces carried out by G. V. Skornikov and K. A. Ter-Martirosyan (Ref. p. 140).

L. D. Landau made some critical remarks during the subsequent discussion, mainly on missing levels in one of the mirror nuclei. Further, Ya. B.

Zel'dovich stated that the existence of Hô is very likely. V. I.

Gerimental proof of the existence of Hô. I. S. Shapiro showed in his reperimental proof of the existence of Hô. I. S. Shapiro showed in his rementary particles, but also on the structure of light nuclei. A. A.

Mentary particles, but also on the structure of light nuclei. A. A.

Gerimental mad V. G. Neudachin gave a survey of experimental and theoretical investigations on direct interactions of nuclei. A. P. Klyucharev (Khar'-investigation sucleon scattering. P. E. Nemirovskiy Bont with least of nucleon scattering. In the discussion of this report A. S.

Lemberg reported on investigations of the Coulomb excitation of nuclear at the Leningradskiy fiziko-tekhnicheskiy institut AN SSSE (Leningrad Card 2/3)

Problems of Nuclear Physics (II All-Union S/170/60/003/010/022/023 Reactions)

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Institute of Physics and Technology of the AS USSR). In the discussion of this report, experimental results obtained in Dubna were given on the excitation of rotational levels by μ -mesonic transitions of η^{238} atoms. V. I. Gol'danskiy reported on the possibility of a two-proton activity of some nuclei. In an attempt made to explain theoretically the results obtained by Almquist, A. S. Kompaneyets suggested the model of a two-nucleus quasimolecule C12-C12. A. I. Baz' reported on his calculations of a nuclear molecule model. L. D. Landau and A. I. Alkhanov took part in the discussion of R. Moessbauer's report. F. L. Shapiro gave a survey of experimental and theoretical investigations of the resonance scattering of γ-quanta carried out by A. I. Alikhanov et al. Investigations carried out at the FIAN and MGU are also considered. L. Ye. Lazarev and A. M. Baldin reported on experimental investigations of photonuclear reactions, L. V. Groshev and S. P. Tsytko on the radiation capture of nucleons. A. S. Davydov reported on non-axially symmetric nuclei, Yu. T. Grin on the superfluidity of nuclear substance which he had discovered together with A. B. Migdal. Reports delivered by American, Canadian, British, German, and Italian scientists are also discussed. There is 1 Soviet reference.

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AUTHORS:

Yermakov, V. S., Zhuk, I. P., Yaroshevich, O. I.

TITLE:

Calculation of Temperature in Fuel Elements of a Nuclear Reactor in Transient Conditions

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 1,

TEXT: The temperature distribution in fuel elements of a water-moderated water-cooled reactor in transient conditions is investigated. The authors proceed from the known set of differential equations for the temperature field of a cylindrical fuel element consisting of rod, airgap, and jacket. This nonlinear differential equation is simplified by assuming mean values of the thermal conductivity coefficient A being a temperature function, for various temperature zones of the fuel element. This simplified

 $=\lambda_{ik}\nabla^2 t_i + Q_i$ (r,7), where i = 1, 2, 3, corresponding to the Card 1/4

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Calculation of Temperature in Fuel Elements of a Nuclear Reactor in Transient Conditions

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rod, the airgap or the jacket, and k is the k-th temperature zone. By means of this equation the fuel elements of a BBP (VVR) reactor with a power efficiency of 760 megawatts is investigated. The thermal capacity of the airgap and the jacket are neglected, and the He and Al-mass is assumed to be small compared to the UO2-mass; furthermore, the temperature drop in the Al-jacket is neglected. For the temperature of the core, the following expression is obtained by means of a Hankel-transformation;

 μ_i are the positive roots of the equation $\mu J_1(\mu) = h J_0(\mu)$

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Calculation of Temperature in Fuel Elements of a Nuclear Reactor in Transient Conditions

8/170/61/004/001/015/020 B019/B056

calculating with (15) it is now necessary to know the reactor period as well as the time within which the reactor attains a certain power output. Table 1 shows the results. There are 1 table and 7 references: 5 Soviet,

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering of the AS BSSR, Minsk)

SUBMITTED: August 16, 1960

Legend to Table 1: 1) Time from the beginning of the reactor startup onward. 2) Core radius in mm. t*) Temperature, calculated by means of a hydrointegrator. t**) Temperature calculated analytically.

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AUTHORS:

Termakov, V. S., Zhuk, I. P., Yaroshevich, O. I.

TITLE:

The problem of nonstationary heat transmission in the fuel elements of a nuclear reactor

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 5, 1961, 96-99

TEXT: The problem of nonstationary heat transmission in the fuel elements of a nuclear reactor is solved in this paper. For this purpose, the simplify-account. It is assumed that the temperature distribution at the beginning of the transient $t(0, r) = \psi(r)$ is nonuniform and that the intensity of the reactor equation. The solution of the dynamic reactor equation with a decay constant τ is found to be:

Card 1/6

$$n = n_0 \left[\frac{\beta}{\beta - \rho} e^{\frac{7}{\beta - \rho}} - \frac{\rho}{\beta - \rho} e^{\frac{\beta - \rho}{L}} \right]. \tag{1},$$

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where n is the density of thermal neutrons at the beginning of the transient q . the reactivity of the reactor, β the fraction of slowed down neutrons, and L the mean lifetime of neutrons. For the production of heat $Q(\tau)$ in a

where
$$Q = Q_0[A_1\sigma^{\alpha_1} - A_0\sigma^{\alpha_1}],$$

$$A_1 = \frac{\beta}{\beta - \rho}; A_0 = \frac{\rho}{\beta - \rho}; a_1 = \frac{\gamma \rho}{\beta - \rho}; a_2 = \frac{\beta - \rho}{L}.$$
(2).

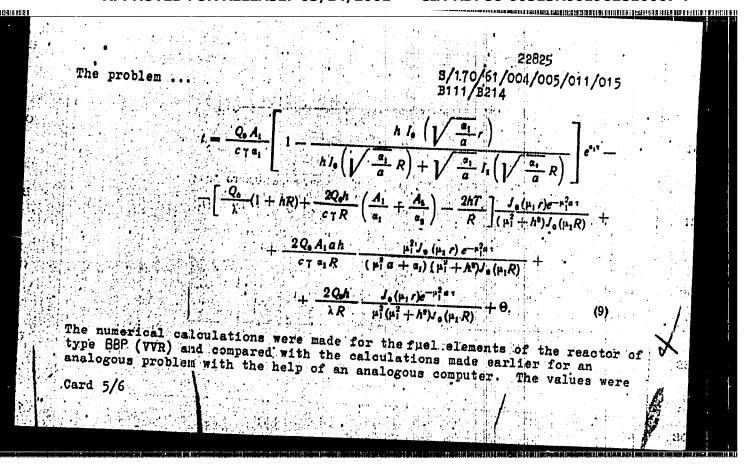
The problem of the radial temperature distribution inside a fuel element may be mathematically formulated in the following manner:

$$\frac{\partial t(r,\tau)}{\partial \tau} = a \left(\frac{\partial^2 t(r,\tau)}{\partial r^a} + \frac{1}{r} \frac{\partial t(r,\tau)}{\partial r} \right) + \frac{Q_0}{c_T} \left(A_1 e^{a_1 \tau} - A_2 e^{-a_2 \tau} \right), \quad (3) \text{ to } (6)$$

Card 2/6

The problem ... $\frac{3}{170/61/004/005/011/015}$ Equation (3) under the conditions (4) and (6) may be solved with the help of a Laplace transform. The solution is obtained in the following form: $\frac{c_1 - \frac{Q_1 A_1}{c_1 a_1}}{c_1 a_1} \left(\frac{h_1 e_1 \sqrt{\frac{a_1}{a_1} r}}{h_1 e_1 \sqrt{\frac{a_1}{a_1} r}} \right) e^{h_1 e_1 + \frac{Q_2 A_2}{c_1 a_1}} \left(\frac{h_1 e_1 \sqrt{\frac{a_2}{a_1} r}}{h_1 e_1 \sqrt{\frac{a_2}{a_1} r}} \right) e^{h_1 e_1 \sqrt{\frac{a_2}{a_1} r}}$ Card $\frac{3}{5}$ $\frac{Q_2 A_2}{a_1 e_1 + h_2 e_1 \sqrt{\frac{a_2}{a_1} r}} \left(\frac{A_1}{a_1} + \frac{A_2}{a_2} \right) - \frac{2hT}{R} \right) \times \frac{2hT}{R}$

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The problem	S/170/61/004/005/011/015 B111/B214
	$\times \sum_{\nu_{i}} \frac{J_{o}(\mu_{i}r)e^{-\nu_{i}^{2}a\tau}}{(\mu_{i}^{2}+h^{2})J_{o}(\mu_{i}R)} + \frac{1}{2}$
	$\frac{2Q_{0}A_{1}ah}{c\tau\alpha_{1}R}\sum_{\mu_{1}}\frac{\mu_{1}^{2}J_{0}(\mu_{1}\tau)e^{-\mu_{1}^{2}\alpha_{1}}}{(\mu_{1}^{2}a+\alpha_{1})(\mu_{1}^{2}+\overline{h}^{2})J_{0}(\mu_{1}R)}+$
经费用证券 化氯化二甲基甲基甲基 化二氯甲基酚 化二氯甲基基苯基酚 医电影电影	$+\frac{2Q_{s}h}{\lambda R}\sum_{r_{1}}\frac{J_{s}(\mu_{1}r)e^{-r_{1}^{2}+\tau}}{\mu_{1}^{2}(\mu_{1}^{2}+h^{2})J_{s}(\mu_{1}R)}$
<u>. 2</u>	$\frac{Q_0 A_2 a h}{7 a_2 R} \sum_{\mu_1} \frac{\mu_1^2 J_0(\mu_1 r) e^{-\mu_1^2 a r}}{(a_2 - \mu_1^2 a) (\mu_1^2 + h^2) J_0(\mu_1 R)} + \theta. \tag{7}$
solution of (7) can	Live roots of the equation $\mu_i I_i(\mu_i R) = h I_o(\mu_i R)$. The be considerably simplified. The first
value. The simplifi	almost completely 1 second after the beginning of the ed expression is:
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	The problem 8/170/61/004/005/011/015	
	found to be practically coincident so that both methods can be applied. The solution obtained describes the nonstationary temperature field of the fuel and 3 Soviet-bloc references.	
	ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering, AS BSSR, Minsk)	
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	Card 6/6	

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S/170/61/004/012/010/011 B104/B138

21.1000 AUTHORS:

Yermakov, V. S., Sokol'chik, V. A.

TITLE:

The experimental organic loop of the MPT-2000 (IRT-2000) reactor of the Academy of Sciences Belorusskaya SSR

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 12, 1961, 109 - 117

TEXT: This is a report delivered at the Mezhdunarodnoye soveshchaniye poeksperimental nym petlyam yadernykh reaktorov (International Conference on Experimental Loops of Nuclear Reactors) at Dubna on the MPT-2000 (RT-2000) research reactor of the Institut energetiki Akademii nauk Belorusskoy SSR (Institute of Power Engineering of the Academy of Sciences Belorusskaya SSR), recently put in operation. An experimental loop with an organic coolant was installed in the reactor. The loop is designed for studying organic compounds as to their applicability as coolants. Polyphenyls are also to be examined for their resistance to temperature effects and radiation, and also for their heat-transfer properties. An experimental channel core center for this purpose. The fuel assembly, which can be exchanged Card 1/2

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The experimental organic loop of ...

(10 mm in diameter) are housed in stainless steel tubes (40 mm in diameter, wall thickness 0.5 mm). The coolant passes along the gap between tube 1 rods, cooling the latter. Neutron absorption is highest in the core center. The reactivity of the reactor was computed with the aid of the two-group theory, using the digital computer of the Institut atomnoy energii imeni I. V. Kurchatova AN SSSR (Institute of Atomic Energy imeni I. V. Kurchatova AS USSR) and allowing for modifications of design. Results are presented in Fig. 2. The computations were performed by Yu. G. Nikolayev, A. A. Chervyatsov (IAE AN SSSR), and O. I. Yaroshevich (IE AN BSSR) following a program worked out by V. A. Khodakov. Details of the design (Fig. 4) are finally discussed. There are 4 figures.

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering AS BSSR, Minsk)

SUBMITTED: August 12, 1961

Fig. 1. Center of the core assembly.

Fig. 2. Neutron distribution along the reactor radius (burnup of U²³⁵: 20%). Legend: (a) fast neutrons; (b) thermal neutrons; (1) with loop;

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AUTHOR:

Yermakov, V. S.

TITLE:

Start of the first Belorussian nuclear reactor

PERIODICAL: Inchemerno-fizicheskiy zhurnal, v. 5, no. 8, 1962, 138-139

TEXT: In May 1962 an 197-2000 (IRT-2000) reactor was put into operation at the Energeticheskiy institut Akademii nauk BSSR (Power Engineering Institute of the Academy of Sciences BSSR). The reactor develops 2000 km. Its moderator, coolant and top shielding are ordinary distilled water. The fuel elements consist of UO2 with 10% U235. Zero-power reactors, accelerators and laboratories are planned in addition. The reactor has ten horizontal and nine vertical holes. It is available to other institutes also. The following alterations were made as compared with into the vertical core hole, is provided with leads to a shielded working shield; (2) A second hot cell was built into the concrete of the biological from the main building to other buildings; (4) control and shielding Card 1/2

Start of the first Belorussian ... S/170/62/005/008/009/009

System were improved; (5) the horizontal holes and the core were also modified. There are 2 figures.

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AUTHORU: Yermakov V C

Yermakov, V. S., Kondrashov, N. G., Perel'man, T. L.,

TITLE: Temperature field in a cylindrical reactor fuel element cooled by a turbulent flow of liquid

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 9, 1962, 38-43

TEXT: The temperature field of a cylindrical rod heated from inside and cooled at the cutside was studied theoretically in order to gain insight into the processes of heat transfer within a reactor core. For simplicity the heat transfer between rod and coolant is assumed to be convective, the coolant flow to be turbulent (heating of the entire liquid flow), and the heat conductivity as well as all parameters of the problem to be constants. The problem of stationary heat transfer is then

Card 1/4

Temperature field in a cylindrical ... \$/170/62/005/009/002/010 B108/B104

$$\lambda \left[\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial t}{\partial r} \right) + \frac{\partial^{2} t}{\partial z^{2}} \right] = -Q(r, z), \tag{1}$$

$$\gamma cSv \frac{\partial \theta}{\partial z} = P_1 \alpha_1 (t|_{r-R} - \theta) + P_2 \alpha_2 (t_0 - \theta), \\
0 < z < L; 0 < r < R.$$
(2).

t(r,z) - temperature in the fuel element, θ (z) - temperature in the liquid, t_0 - temperature of channel wall, f and c - density and specific heat of coolant, P_1 and P_2 - perimeters of fuel element and channel. (r,z) can be found from the neutron diffusion equation. The boundary conditions are

 $\frac{\lambda \frac{\partial t}{\partial r}}{\partial r}\Big|_{r=R} = \alpha_1 \left(t - \theta\right),$ $\frac{\partial t}{\partial z}\Big|_{z=L} = 0.$ The approximate solution of this .

S/170/62/005/009/002/010

**Emperature field in a cylindrical ... B108/B104

Problem has the form

 $t(r,z) = \sum_{k=0}^{n} (r/R)^{2k} a_k(z).$

Q and V^2 t are approximated by a polynomial of (n-1)-st degree. This leads to a system of n equations for the (n+1) functions $\{a_k(z)\}$. As t(r;z) in general does not satisfy the boundary conditions it is necessary to minimize the unknowns when these conditions are satisfied. The error of this method is made up only of the errors in the heat conduction equation and in the boundary conditions. The problem was solved numerically for various actual parameters. There are 1 figure and table.

ASSOCIATION: Energeticheskiy institut AN BSSR, g. Minsk (Power Engineering Institute AS BSSR, Minsk)

Card 3/4

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			a cylindrical	S/170/62/005/009/002/010 B108/B104
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en les de la company de la L '30237-66 ACC NR. AP60201.50 UR/0250/65/009/011/0722/0724 SOURCE CODE: AUTHOR: Yermakov, V. S.; Soshina, N. V. ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy TITLE: Determination of uniformity of distribution of activity over a plane source with a large surface SOURCE: AN BSSR. Doklady, v. 9, no. 11, 1965, 722-724 TOPIC TAGS: mathematics, absorption coefficient
ABSTRACT: The article considers the question of the determination of the
uniformity of distribution of activity over the surface of a plane source.
When A(x, y) const, this value can be taken out of the integral sign, and the line of equal intensity can be found by solving the equation A(5, 7)= [[A(x, y) exp (-nr) dady. Then, if several identical detectors are placed on this line, the uniformity of the distribution of activity in a given plane can be judged by comparing the intensities recorded by these detectors. The problem of the authors was to determine lines of equal intensity A(5, h) coast, given the absorption coefficient value a coast for a nime rectangular source of the size 2x₀2y₀. This article was presented by Academician, AN BSSR, A. N. Sevchenko. Orig. art. has: 13 formulas. JPRS7 SUB COLE: 12, 07/ SUBM DATE: 15/00/64/ M

YERMAKOV, V.S.; SOSHINA, N.V.

1450133

Determining the uniformity of the distribution of activity over a two-dimensional source having a large surface. Dokl. AN BSR 9 no. 112722-724 N *65 (MIRA 19:1)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.S., kand. tekhn. nauk; MINKOV, V.A., kand. tekhn. nauk

Regulation of the load graph of a power system by industrial consumers. Elek. sta. 36 no.6:56-59 Je '65. (MIRA 18:7)

AUTHORS:

Al'ftan, E.A. and Yermakov, V.S.

SOV/46-4-4-2/20

TITLE:

The Effect of Ultrazound on Ageing of a Nickel--Chromium--Titanium Alloy (Vliyaniye ul'trazvaka na stareniye nikel'-khrom-titanovogo splaya).

PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol 4, Nr 4, pp 307-314 (USSR)

ABSTRACT:

First studies of the effect of elastic vibrations of sonic and ultrasonic frequencies on the internal transformations is notals and allows, including processes of dispersion hardening, were carried out by Gorakiy and Yefremov (Ref 1). They showed that ultrasonic wibrations of 30 kc/s frequency and 10 W/cm2 accelerate natural ageing of duralumin by a factor of 63. This effect was confirmed by Gudtsor and Gavze (Refs 2, 3) and Pogodina-Alekseyeva and Eskin (Ref 5) who investigated dispersion againg of aluminium and ferrous alloys. Herman-Schenck and Schmidtmann (Ref 4) found a 430 kc/s, 6.5 W/cm2 ultrasonic beam to be ineffective as an accelerator of ageing of steels with 0.06% of carbon, possibly because the ultrasonic power was too low. The present authors studied the effect of 20-26 kc/s ultrasonic vibrations on the process of ageing of the KhN.80.T nickel--chromium-titanium alley. Lower frequencies, of 8-16 kc/s, were found to fatigue

Card 1/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

The Effect of Ultrasound on Ageing of a Nickel--Chromium--Titanium Alloy

the operating personnel. Cylindrical samples of the alloy (Fig 1) were used. The apparatus is shown in Fig 2. It consisted of an electric oscillator 1, a selenium rectifier 2, an ultrasonic generator 3, an electric furnace 4 with a thermocouple 5 and a thermostat 6. A sample 7 was attached to the altrasonic generator by means of an extension rod 8 onto which the sample was screwed. The ultrasonic generator consisted of a magnetostriction vibrator a, a transmitting rod b and a casing v. The system consisting of the vibrator, transmitting rod and extension rod together with the sample had dimensions which produced resonance at frequencies of 23-25 kc/s. The sample was placed into the furnace and was heated for 10-15 minutes until an appropriate temperature was reached. Then the sample was aged with the ultrasonic generator switched on. A standing wave was excited in the system consisting of the vibrator, transmitting rod, extension rod The largest stresses and deformations occurred in the middle portion of the sample where the hardness resulting from the ageing process was measured. Ageing was carried out using ultrasound of 23-25 ke/s with 5 µ amplitude of the displacement of the end of the sample. Temperatures of 700, 750 and 800°C and various durations of

Card 2/4

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The Effect of Ultrasound on Ageing of a Nickel--Chromium -- Titanium Alloy

the troatment were used. Some samples were irradiated with ultrasound at 700°C, 20-21 kc/s frequency and the displacement amplitude of 8 µ. At the latter amplitude the acoustic energy dissipated in the sample was approximately twice as high as in the case of displacement amplitude of 5 µ. The stresses in the samples aged at 700°C were 2.3-2.7 kg/mm² for the displacement amplitude of 5 µ and 3.3-3.7 kg/mm² for the displacement amplitude of 8 µ. The increase of the ultrasound energy by a factor of two increased the accelerating effect of ultrasound on the ageing process very considerably; at the nigher ultrasound intensity ageing was 40-50 times as rapid as the ageing without ultrasound. The increase of the ageing temperature (from the standard temperature of 700°C) to 800°C and simultaneous application of ultrasound was found to produce a further increase in the rate of ageing without lowering the maximum hardness achieved by this process. The results obtained are given in Figs 3-5 and Table 1. These figures

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The Effect of Ultrasound on Ageing of a Nickel--Chromium--Titanium Alloy

show duration of the ageing process against hardness achieved by it. The ageing process was taken to be complete when the sample reached the hardness obtainable after 16 hours at 700°C without ultrasound. Ageing with ultrasound makes it possible to obtain a more highly disperse state of the second phase without any change of its total amount in the alloy. There are 5 figures, 1 table and 8 references, 7 of which are Soviet and 1 German.

ASSOCIATION: Voyenno-vozdushnaya inzhenernaya akademiya im. Mozhayskogo, Leningrad (Air Force Engineering Academy imeni Mozhayskiy, Leningrad).

SUBMITTED: October 8, 1957 - June 5, 1958.

Card 4/4

CKMAROU,

AUTHOR: Yermakov, V.S., Engineer.

96-1-22/31

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TITLE:

The Production of Germanium from Fuel Ash (Polucheniye germaniya iz zoly topliva)

PERIODICAL;

Teploenergetika, 1958, Vol.5, No.1, pp. 80 - 81 (USSR) ABSTRACT:

This article gives a brief account of studies made in Great Britain on the germanium content of fine dust from power stations. General information on the distribution of germanium in particular parts of different types of boilers, is given in Tables 1 and 2. The object of the tests was to determine the most suitable type of boiler and ash arrester for trapping ash containing germanium. Experiments showed that variations in the temperature of combustion of fuel and the size of the boiler do not play an important part in increasing the quantity of germanium in the dust. It was also show that an economic method of extracting germanium from the fine dust in boilers There are 2 tables and 3 non-Slavic references.

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AUTHORS: Yermakov, V.S., Engineer and Al'ftan, E. A.

Accelerated Ageing of the Heat Resisting Nickel Alloy E1457B Subjected to the Effect of Ultrasonics (Uskorennoye pod vozdeystviyem ul'trazyuka)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 7,

ABSTRACT: Gudtsov, N.T. and Gavze, M. N. (Ref.1) investigated the effect of ultrasonics of 300 - 1500 kc/sec ferrous alloys. Schenk, G. and Schmidtmann, O. (Ref.2) a specific power of 6.5 W/cm² on the ageing of basic and Yefremov, V. I. (Ref.3) stated that ultrasonics of 430 kc/sec with 30 kc/sec and a specific power of 10 W/cm² accelerate O.8% Mg and O.5% Si. Pogodina-Alekseyeva, K. M. and temperature 20 to 25 times faster in an ultrasonics field Card 1/3 of 1 Mc/sec with a specific power of 1.6 W/cm² than without

Accelerated Ageing of the Heat Resisting Nickel Alloy E1437B Subjected to the Effect of Ultrasonics

using ultrasonics. According to Gudtsov and Gavze (Ref,1) the effectiveness of ultrasonics as regards ageing is independent of the frequency of oscillation in the range of 300 to 1500 kc/sec and it is this conclusion which forms the basis of the investigations of the authors of this paper, who believed that it is advisable to apply apparatus ensuring a maximum intensity of ultrasonics. In the experiments they used a magnetostriction ultrasonics generator (20 to 26 kc/sec), a sketch of which is shown in Fig.1, p.23. The regimes and the results of shown in Fig.1, p.23. The regimes and the results of ageing in an ultrasonic field of the Soviet alloy EI437B are entered in a table, p.25. The graphs, Figs. 2-4, show the change in hardness of the EI437B alloy at various temperatures with and without the use of ultrasonics. On the basis of the obtained results the following conclusions are arrived at: ultrasonics of 20 to 26 kc/sec accelerate ageing of the alloy EI 437B; doubling of the intensity of the ultrasonics in the specimen brings about a considerable increase in the effect of the ultrasonics on

Card 2/3 the process of ageing and permits reducing the duration

Accelerated Ageing of the Heat Resisting Nickel Alloy EI437B Subjected to the Effect of Ultrasonics

of ageing 40 to 50 times compared with the standard regime; application of even very weak ultrasonics during ageing at 800°C eliminates the influence of coagulation and produces the required hardening of the alloy 15 to 20 regime.

There are 4 figures, 1 tables and 6 references, 5 of which are Soviet, 1 German.

ASSOCIATION: Leningradskaya voyenno-vozdushnaya inzhenernaya akademiya (Leningrad Military Aviation Engineering Academy)

Card 3/3

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.S.

AUTHOR:

Yermakov, V.S.

32-1-48/55

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TITLE:

A Rotating Accessory to the Metallographic Microscope Type

MIM-7

(Povoratnoye prisposobleniye k

metallograficheskomu mikroskopu tipa "MIM -7").

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 1, pp. 112-112 (USSR)

ABSTRACT:

The accessory attachment to the aforementioned microscope consists of a pair of gear wheels, of which the larger serves as the movable table for the microscope, and the smaller serves the purpose of driving the former, one of the holes of the fastening screws of the microscope support being used as a lower bearing. The samples are placed upon the movable plate (larger gear wheel) in such a manner that, by moving the driving shaft with the small gear wheel they can, one by one, be brought before the objective, or, if the sample is in the center of the movable plate, it is caused to perform circular movements and is alternatingly illuminated and exposed in various of its parts in polarized light. A uniform (shock-free) motion of the object to be investigated is assured. The circular motion of the sample may also be limited to

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A Rotating Accessory to the Metallographic Microscope Type MIM-7

32-1-48/55

a certain angle. For this purpose the angular degrees are marked on the edge of this movable plate, and an indicator is mounted in a suitable position. The said movable plate (large gear wheel) has its own ground plate, which is fastened to the table of the microscope. There is 1 figure.

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Card 2/2

1. Microscopes-Adapters-Test methods

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

AUTHOR:

Yermakov, V. S.

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TITLE:

The Metallography of Non-Perrous Metals in Polarized Light (Tavetnaya metallografiya v polyarizovannom svete)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7,

pp. 838 - 838 (USSR)

ABSTRACT:

This investigation was conducted with a metallographic microscope of the type MIM-7 to which a polarizer and an analyzer were mounted. A cellophane foil with a thickness of 0,05 mm was used as "color sensitive film". A number of colored microphotographs of the alloy EI 437 in various azimuthal positions are reproduced. It may be seen that different grains with a differing crystallographic orientation are differently colored. When the stage of the microscope is rotated the color changes and then returns to the original tinge. By means of some other microphotographs it is shown that this method permits microscopic determinations not only with small, but also with more powerful optical magnifications (1:1530). The contrast in color, however, is reduced. In investigations of cast alloys the dendrite

Card 1/2

The Metallography of Non-Ferrous Metals in Polarized Light

sov/32-24-7-24/65

formations which exhibit a different crystallographic orientation can be sharply distinguished. Some microphotographs of cast aluminium, copper alloys and zinc are given as well. It can be easily distinguished, which crystallites belong to a certain dendrite. There are 5 figures and 6 references, 2 of which are Soviet.

Card 2/2

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Made I boom experiments 857/359 demiya sauk 5553. Institut metalizati. Mesnapy sowet po probleme nhare- probath splanov	n po thatogrochays splavme, t. 5 (Investigations of Rest-Resistant tok 5) Mossow, Ind-wo AN 2533, 1979. 423 pt. Errets slip invested. des printed.	o of Pablishing Homes: W.A. Elizory, Pech. Ed.: I.P. Bas'els, Editorical Board: J.P. Eardin, Amediation, O.V. Enrymmov, Archarities, H.V. Agrav, Cerrespoints, Emberry, URIA Anadory of Ectorose (Sery, Ed.), I.A. Oding, I.M. Perlev, and I.P. Sedis, Comitains of Training Sequence.	CHOUSE: This book is intended for presidential engineers, research variance is setallung, and may also be of intense to ethicsts of advanced courses in metallung;	This book, consisting of a manhor of papers, deals with the proper- back-redisting metals and alloys. Each of the papers is derived to by the fetters-which affect the properties and behavior of metals of of various allows are sential. Defendantly and the best resisting the of various allows are sential.	metals as related to the thermal contitions are the object of may described. The problems of bylonges maintifferent, diffusion position of exercis contings on march surfaces by means of position of a problems of the page describes the approximate and arthorisation could penchylaid of metals. Moreowess march are retreated	emmined and evaluated, health: any gives of studies of inscretceic bonds and the beharfor or atoms in well. Tests of trudies et decayersor links are described. No percentition are sestioned. Entreaces seeminguage near of the extiliate. Institute, LA: A.M. Struyere, and E.M. Gorenhare, M. 176 Assissing Seat. 10	Like Fernich, and B.E. m-Makel-Translas Steels in in Amsteritie Steels	a	receiping L.J. deceleration of defing Sychos or II del Seat-Sectional Ambrel.	A.P. Klimy, and A.E. Bermor. To chain of Electicity of Livenian	. and i.P. Baille. The Erbert of Campier Alloging With Vanadius, for Erbert of Campier Alloging With Vanadius, Friends of Universe Campies is the Assertled of Erritses Campies is the Assertled of Safeting Of Sa	Justice, E.J., On the Fredden of Studying the Baselies of Streetural Changes and Properties in One Species Within a Wide Important Engle From Within a Wide Important Properties of Mandard Educationally Sections the Streeture and Properties of Mandard St.	Lorin, B.B., B.K. Firnit, V.S. Enleyges, and R.E. Schlighly. Servebre and Experies of stain Mings laids to long-line of Min Temperium	Chemping #3.", <u>Ald. Boltmaners,</u> and M.I. 1911". The Effect of Aydrogen on Cross Brangth of Certain Reals	legimister, 13s., and Life Strades inter. Crevy Birrarch of Steam Superinsting Ripse of Amstericia Steel in a State of Congles Stress	Company 12th, and 1.1. Felding. Hifeet of Temperature Variations on 113	Corn. E.L., V.A. Laguage, and E.A. Droperatulate. Study of Lydrogen In-	formator, V.S. Artificial Aging of the Elip Alloy water Cyclic Louis 136 Tealory N.T., and Y.A. Prijor. Study of Fine Structure of Aluminan-Magnesian And Coppositional Solid Solitions	finally, 2.1. Replayfittes of the Bernediartic Change in Amtentic and the Froblem of the Development of Sev Alloys	isbeday, T.A., P.M. Harinste, and A.I. Leftwace. Study of the Radurance 183 of Cast. of Metall by Means of Registering the Pariety Curve	
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SOV/129-59-4-3/17 AUTHOR: . V. S. Yermakov (Engineer)

TITLE: Cyclic Ageing of Refractory Steels of the Type EI437

(Tsiklicheskoye stareniye zharoprochnykh splavov

tipa EI437)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,

1959, Nr 4, pp 14-19 (+ 1 plate) (USSR)

ABSTRACT: The method of cyclic ageing consists in dombining the effect of temperature on a hardened alloy with cyclically

varying stresses produced artificially in the alloy. This is done to accelerate ageing. Various authors studied the combined influence of temperature and static

stresses on the process of decomposition of solid solutions of alloys (Refs 3-5) and also the influence on these processes of internal stresses which are generated

during decomposition of solid solutions (Refs 6,7). Some of the authors pointed out that static stresses accelerated the decomposition of solid solutions. The author investigated the influence of cyclic stresses on the process of ageing of alloys of the type EI437. The cyclic stresses during ageing can be produced thermally

by subjecting the alloy to repeated cyclic heating and Card 1/5 cooling in a certain range of temperatures.

SOY/129-59-4-3/17 Cyclic Ageing of Refractory Steels of the Type EI437 non-uniform deformation in the individual layers considerable thermal stresses will occur, the magnitude of which will depend primarily on temperature gradient and also on the coefficient of linear expansion and the modulus of elasticity of the alloy concerned. A characteristic feature of "thermal cycle ageing" is that it proceeds at a variable temperature. The experiments were carried out using flat and cylindrical laboratory specimens, sketches of which are reproduced in Fig 1, made of deformable refractory nickel-chromium alloys EI437, EI437A and EI437B. To achieve various heating speeds the specimens were heated by various methods: in salt baths, by direct passage through them of an electric current, by high frequency current, and in an ordinary electric furnace which was considerably hetter than the specified maximum temperature of cyclic ageing. A batch of specimens were quenched in water at room temperature; another batch were cooled by air compressed to 3 - 4 atm. In Fig 2 (p 15) the standard 700°C, 16 hours ageing curve is graphed for the alloy EI+37A, Card 2/5 and also the ageing curve for thermal cycle ageing at For the cyclic ageing 700 ± 20°C, (quenching in water).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

SOV/129-59-4-3/17 Cyclic Ageing of Refractory Steels of the Type E1437

the heating was effected in a salt bath with a heating duration of 60 sec and a cooling duration of 5 sec. In Fig 3 (p 16) the dispersion hardening curves are graphed for the alloy EI437 in the case of thermo-cyclic ageing at 700 ± 2000 with quenching in water, using various methods of heating of the specimen. As compared to ordinary ageing, heating by passage of an electric current brings about a 50-fold acceleration of the hardening of the alloy; high frequency heating results in a 100-fold acceleration of the hardening. In Fig 4 the variation is graphed in the quantity of the intermetallide phase of the alloy EI437A during thermo-cyclic ageing as a function of the ageing time. In Fig 6 the variation is graphed of the hardness along the cross-section of a cylindrical EI437 specimen of 7 mm diameter after thermo-cyclic ageing. In Fig 7 the dependence is graphed of the long duration heat resistance of the alloy EI437A on the type of thermal cycle ageing and on the number of cycles. In Fig 8 the dependence on the number of cycles is graphed of the long duration heat resistance

of the alloy EI+37B after thermal cycle ageing with

SOV/129-59-4-3/17

Cyclic Ageing of Refractory Steels of the Type EI437 heating in an electric furnace. In Fig 9 the dependence

on the number of cycles and on the type of thermo-cyclic ageing is graphed of the long duration heat resistance of the alloy EI437. On the basis of the obtained results the following conclusions are arrived at: 1) Thermal cycle ageing of type EI437 refractory alloys enables obtaining tens of times more rapidly at the surface of the specimen, the same degree of hardness as is obtained during ordinary ageing. 2) During thermal cycle ageing only the surface layer of the specimen will be subjected to accelerated hardening whilst the core will only become partially hardened. As a result of this the strength of the specimen will usually be lower than in the case of ordinary heat treatment. 3) The heat resistance of EI437 type alloys after thermal cycle treatment will in a number of cases be lower than the current value of the heat resistance. 4) Thermal cycle ageing can be applied only if the components manufactured from such an ageing

Card 4/5

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SOV/129-59-4-3/17

Cyclic Ageing of Refractory Steels of the Type EI437

alloy need not have a high surface strength combined with a relatively tough core.

There are 9 figures and 8 Soviet references.

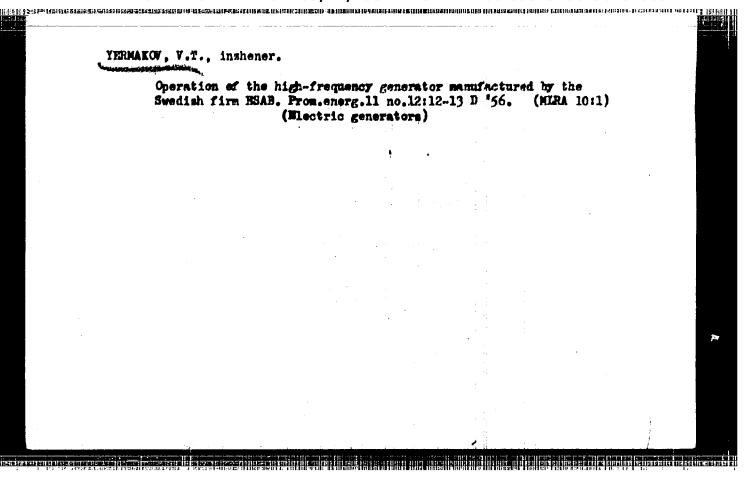
Card 5/5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.S., kand. tekhn. nauk, glav. red.; LEONKOV, A.M., red.; MINKOV, V.A., red.; PEKELIS, G.B., kand. tekhn. nauk; RESHETNIKOV, D.V., red.

[Coverage of fluctuating electrical loads in electric power systems] Problemy pokrytila peremennykh elektronagruzok v energosistemakh. Minsk, Nauka i tekhnika, 1965. 144 p. (MIRA 18:10)

1. Nauchno-tekhnicheskaya konferentsiya po problemam pokrytiya pikovykh nagruzak obspedinennoy energosistemy Severc-Zapada. Minsk, 1965.



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AUTHOR: Yermakov, V.T. (Engineer)

133-8-16/28

TITLE:

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Piercing of stainless steels at an insufficient capacity of the induction motor. (Proshivka nerzhaveyushchikh staley pri nedostatochnoy moshchnosti asinkhronnogo dvigatelya).

PERIODICAL: "Stal:" (Steel), No.8, 1957, p.732 (USSR).

ABSTRACT: A feeding installation for the motor of the piercing mill on the Yuzhnotrubny Works (two reactive feeders operated by closing sectional disconnecting switch) which permits short time overloading of the motor, is described (Fig.1). This prevents culting off of the motor during the piercing of stainless steel billets. The latter steel is particularly sensitive to changes in temperature during the piercing period, e.g., piercing of a billet of 215 mm dia. at 1200 C takes place at a load of 4000 Kw and at 1180 C the load increases to 5000 Kw.

There is 1 figure.

ASSOCIATION: Yuzhnotrubnyy Zavod . (Southern Pipe Works)

AVAILABLE: Library of Congress

Card 1/1

AUTHOR 8

Yermakov, V.T. (Engineer)

SOV/94-58-9-7/30

LITLE 2.

The use of synchronous motor drive on pipe mills. (Primeneniye sinkhronnogo dvigatelya dlya privoda truboprokatnykh stanov.)

PERIODICAL:

Promyshlennaya Energetika, 1958, No.9. pp. 20. (USSR)

ABSTRACT 2

The production of seamless steel tubes is briefly described. At the Southern Pipe works the automatic pipe mill was driven by a wound rotor induction motor of 800 kW and 600 r.p.m. A flywheel was used. It was decided to replace the induction motor by a synchronous motor partly because the old induction motor needed a major overhaul and partly to increase the output. The starting conditions are not easy even after the flywheel was removed, nevertheless they were found acceptable for use with a synchronous motor type DSZ-1707-8, of 825 kV, 1100 kVA. The starting period was 3 - 4 seconds and the mill could be stopped in 17 seconds. As a result of installing the synchronous motor the power factor was changed from 0.7 lagging to 0.8 leading and the increase in motor speed from 600 to 750 r.p.m. increased

Card 1/2

and the state of t

The use of synchronous motor drive on pipe mills. SOV/94-58-9-7/30

the mill output. The motor is working satisfactorily.

ASSOCIATION: Nikopol'skiy yuzhnotrubryy zavod (Nikopol' Southern Pipe Works)

1. Electric motors--Applications 2. Electric motors--Performance

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

S/133/60/000/011/016/023 A054/A029

AUTHOR:

Yermakov, V.T., Engineer

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TITLE:

Modernized Power Line of the Automatic Mill in the 400-mm Tube

Rolling Installation

PERIODICAL: Stal', 1960, No. 11, p. 1025

TEXT: In July 1959 the drive of the automatic mill of the 400-mm tube rolling installation of the Yuzhnotrubnyy Plant was reconstructed: the fly-wheels having a total weight of 30 tons essential for operating the slip regulator of the asynchronous motor were removed, the asynchronous motor (capacity 1,325 kilowatts) was replaced by a synchronous motor of 2,300 kilowatt capacity at 500 rpm and producing a rolling speed of 4 m/sec. It will no doubt be known that the automatic mill works irreversibly and the load - at the start of rolling - is taken over by the rollers with a certain impact, after which follows the rolling of the tube on the mandrel for 2.5-3 seconds. When measuring the moments of resistance in the spindles by the tensiometric method this impact can be observed very clearly in the initial stage of the operation, whereas it was found from oscillographic observations of the synchronous motor that the peak load, when rolling is started, is not reached instantly, but Card 1/2

S/133/60/000/011/016/023 A054/A029

Modernized Power Line of the Automatic Mill in the 400-mm Tube Rolling Installation

after 0.15 sec. Experiments show that the removal of flywheels promote a smooth operation of the power line and extends the useful life of some important parts of the equipment, especially that of the bronze bushes of the Ortmann coupling and its protecting pins, as well as that of the hinged couplings of the spindles. However, when removing the flywheels from the drive, the capacity of the Bibby coupling connecting the drive and the reduction gear of the mill must be increased. The use of synchronous motors in the drive of the automatic tube rolling mill improves the economic-technical indices of this aggregate and reduces the cost of the electric installation in this type of tube rolling mills. There are 3 figures.

ASSOCIATION: Yuzhnotrubnyy zavod (Yuzhnotrubnyy Plant)

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

D

YERMAKOV, V.T.

Replacement of asynchronous motors with synchronous motors for driving pipe-rolling mills and methods for selecting their power rating. Prom. energ. 16 no.4:14-16 Ap 161. (KIRA 14:9) (Rolling mills-Electric driving)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

1. YERMAKOV. V. V	

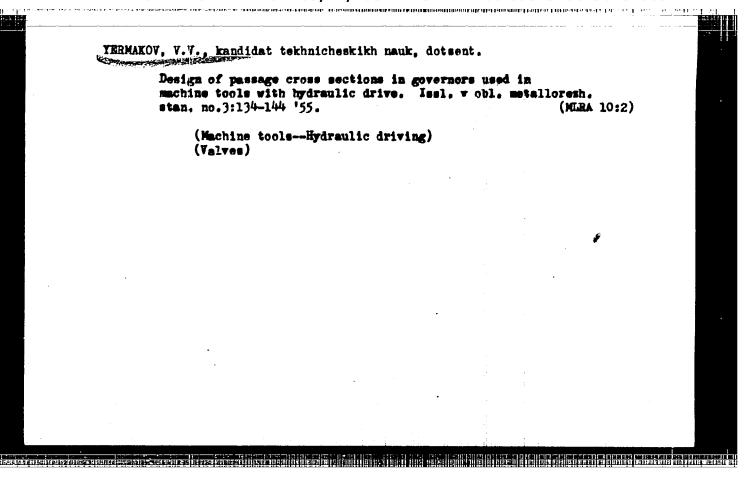
- 2. USSR (600)
- 4. Technology
- 7. Principles of computing hydraulic drive. Moskva, Mashgis, 1951

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

YERMAKOV, V. V.

"Investigation of the Stability of Telegraphic Communication During Work on Channels of Tonal Telegraphy." Gund Tech Sci. Macces Electrical Engineering Inst of Communications, Min Communications, Moscow, 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)



YERMAKOV, VLADIMIR VIKTOROVICH

AMAN'IN, Sergey Grigor'yevich, professor; ACHEMEAN, Banas Sancylevich,
professor, doktro tekhnicheskith nauk; BOGUSLAVSKIY, Boris L'vovich,
professor; TERMAYOV, Yladiani Ytherarich, dotsent; IUMAY'INV,
Niholay Vasil'yevich; dotsent; RUMAYASKOY, Aleksandr Alekseyvich,
dotsent; FUSH, Valentin Ervinovich, dotsent; PROOTENCK, Aleksey
Antonovich, dotsent; EHRYLOV, Aleksandr Bikolayevich, dotsent;
ROSTOVYEN, I.A., inshener, retsensent; SCKOLOVA, T.F., tekhnicheskiy redakto

[Machime tools] Metalloreshushchie stanki. Pod red. N.S.Acherkana.
Moskva, Gos. nauchmetekhn. ind-vo mashinostroit. hit-ry, 1957.
1015 p. (Machime tools)

(Machime tools)

SOV/123-59-16-64504

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 122 (USSR)

AUTHOR:

Yermakov, V.V.

TITLE:

Heat Treatment in the Flux During Drop Forging

PERIODICAL: Tr. Taganrogak, radiotekhn. in-ta, 1957, 3, Nr 2, 297 - 304

ABSTRACT:

Conditions of isothermic treatment are established, which is recommended instead of the labor-consuming annealing and normalizing operations after drop forging. The tests were carried out with the steel grades: 40, 40Kh, USA. The isothermic treatment was effected at a temperature of 500-650°C in the course of from 10 seconds to 2 minutes. Samples of steel 40, with a diameter and height of 20 mm, were subjected to deformation after heating them at 800°C. The degree of deformation was regulated from 12 to 40%. Intervals of the decomposition of austenite were established, C-shaped diagrams for details of small size were drawn up, and the influence of deformation on the kinetics of the austenite conversion was studied. As a result of deformations, the conversion of austenite in an isothermic medium slows down and the curves of the termination of decomposition on the C-shaped

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

Heat Treatment in the Flux During Drop Forging

80V/123-59-16-64504

diagram shift to the right. For the cases investigated a temperature of the medium of 550°C is recommended. At this temperature the decomposition time of austenite is 2.5 - 3.0 minutes. The important economic effectiveness of the isothermic treatment process in the flux during drop forging is emphasized. 6 figures.

0.B.M.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YFRMAKOV, V. V.

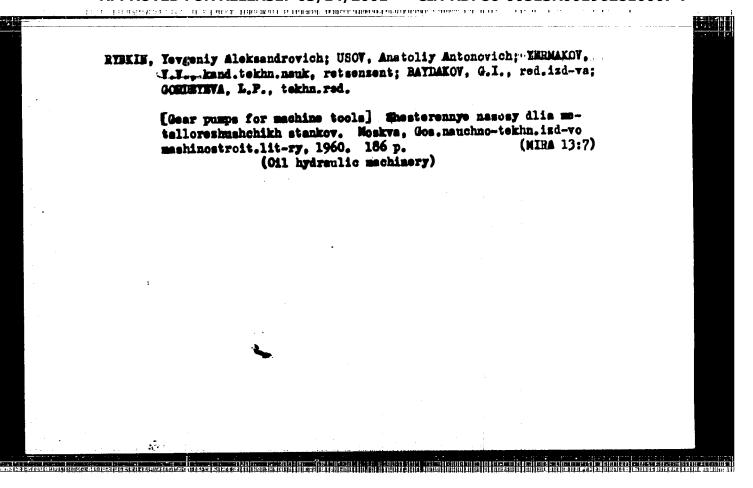
AGHERKAN, N.S.; YERMAKOV, V.Y.; IGHAT'YEV, N.V.; KAUFMAN, L.M.; PUSH, V.E.; FEROTEROK, A.A.; KHARIZOMEROV, I.V.; EHRYKOZ, A.M.; VLASKIN, P.S.; kandidat tekhnicheskikh nauk, dotsent; GAMDLER, A.V.; kandidat tekhnicheskikh nauk, dotsent; ALEKSEYEV, P.G., kandidat tekhnicheskikh nauk.

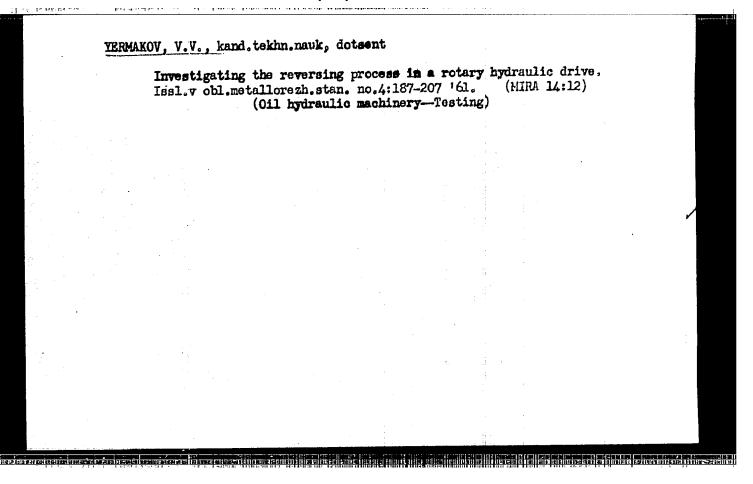
"Machine tools" by V.A.Bravichev and others. Reviewed by N.S.
Acherkan and others. Vest.mash. 37 no.5:87-91 My 157. (MLRA 10:5)

1.Kafedra "Metalloreshushchiye stanki" Moskovskogo stankoinstrumental'nogo instituta (Acherkan, Yermakov, Ignat'yev, Kaufman, Push, Fedotenok, Kharizomenov, Khrykos)

(Machine tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"





VERMANOY. V.V.; LESHCHEMMO, V.A., kehd. tekhn. nenk, retsensent;
https://discourses.com/less-

ACHERKAN, Naum Samoylevich, zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof.; GAVRYUSHIN, A.A.; YERMAKOY, V.V.; ICNAT'YEV, N.V.; KAKOYLO, A.A.; KUDINOV, V.A.; KUDHYASHOV, A.A.; LISITSYN, N.M.; MIKHEYEV, Yu.Ye.; PUSH AND A. TROFFMON O.N.; FEDOTENOK, A.A.; KHOMYAKOV, V.S.; ABANKIN, V.I., inzh., retsenzent

[Metal-cutting machines in two volumes] Metallereshushchie stanki. [v dvukh tomakh]. Pod red. N.S.Acherkana. Moskva, Mashinostroenie. Wel.2. 2. perer. izd. 1965. 628 p. (MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

ACHERKAN, N.S., doktor tekhn. nauk, prof., zasl. deyatel nauki i tekhniki RSFSR; GAVRYUSHIN, A.A., kand. tekhn. nauk; YERMAKOV, Y.V., kand. tekhn. nauk, dots.; IGNAT'YEV, H.V., kand. tekhn. nauk, dots.; KAKOYLO, A.A., inzh.; KUDINOV, V.A., kand. tekhn. nauk; KUDRYASHOV, A.A., kand. tekhn. nauk, dots.; LISITSYN, N.M., kand. tekhn. nauk, dots.; MIKHEYEV, Yu.Te., dots.; FUSH, V.E., doktor tekhn. nauk, prof.; TRIFONOV, O.N., kand. tekhn. nauk, dots.; FEDOTENOK, A.A., doktor tekhn. nauk, prof.; KHOMYAKOV, V.S., kand. tekhn. nauk; ABANKIN, V.I., inzh., retsenzent

[Metal cutting machines] Metallorezhushchie stanki. Moskva, Mashinostroenie. Vol.1. 1965. 764 p. (MIRA 18:10)

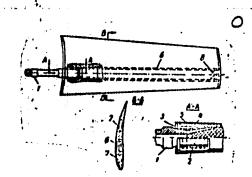
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

FDN/WW/EM/RM IJP(c) EVT(m)/EVP(w)/EVP(v)/EVP(j)/EVP(k) SOURCE CODE: UR/O413/66/000/007/0043/0044 T. 08999-67 ACC NR: AP6012124 AUTHORS: Leont'yov, N. N.; Malakhovskiy, A. E.; Zakharov, M. A.; Pershutov, G. G.; Petrov, S. P.; Yermakov, V. V.; Komkov, A. N. ORG: none TITIE: A blower blade. Class 27, No. 180289 SOURCE: Izobrateniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 43-44 TOPIC TAGS: blade profile, rotor blade, industrial blower, ventilation fan ABSTRACT: This Author Certificate presents a blower blade fastened by a shaft and a coupling section to the sleeve of the driving wheel. The design increases the operating reliability under alternating loads. The shaft, at the point of fastening to the blade, has a longitudinal cross section made up of two frustums of a cone, combined along the smaller bases. These frustums are coated together with the entire blade by an overall layer of glass-reinforced plastic. This layer is tightly drawn together by means of a split tapored metal bushing and a disengaging coupling section (see Fig. 1). These units are coated with a subsequent UDC: 621.631.4-253.5 Card 1/2

L-08999-67

ACC NR: AP6012124

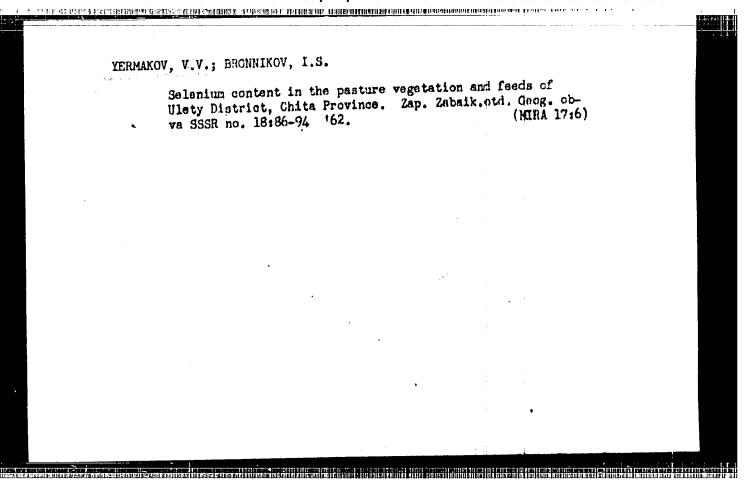
Fig. 1. 1 - shaft; 2 - disengaging coupling section; 3 - glass-reinforced plastic layer; 4 - tapered split bushing; 5 - subsequent layer of glass-reinforced plastic; 6 - power spar; 7 - auxiliary spars; 8 - disks



layer of plastic deposited on the framework to produce the operating profile of the blade. The blade framework includes a power spar and auxiliary spars which form (in the transverse cross section) the operating profile. The blade carries on its end part a set of balancing disks. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Feb65

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YERMAKOV, V. V.
Ostetrics
Dissertation: "Birth by Brow Fresentation." Cand Med Sci, Second Moscow Medical Instiment I. V. Stalin, 8 Mar 54. (Meditsinskiy Rabotnik, Moscow, 2 Mar 54).
SG: SUM 213 20 Sep 1954

TIROTIN, H.A., dots., TERMAKOV, V.V.

Pages from the story of the role of medicine in the defense of

Sevantopol; on the 100th anniversary of the defense of Sevantopol.

Trudy LMI 2:313-322 '55 (MIRA 11:8)

1. Kafedra istorii meditsiny (sav. - dots. H.A. Tikotin) Pervogo Leningradskogo meditsinskogo instituta imeni akademika I.P. Pavlove. (SEVASTOPOL-HISTORY)

(MEDICINE, HILITARY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YEMAKOV, V.V., kandidat meditsinskikh nauk Biomechanics of birth in cases of brow presentation. Akmsh. 1 gin. no.4:32-35 Jl-Ag '55. (MLAA 8:11) 1. Is knfedry akusherstva i ginekologii (saw.prof. I.F.Zhordania) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni I.V.Stalims. (LABOR, PRESENTATION brow, biomechanics)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.V.

Plea for improvement in training pharmaciets with higher education. Apt.delo 4 no.5:27-30 8-0 '55 (MLRA 8:12)

1. Kandidat meditsinskikh mauk sam.mach. GUUE Ministerstva sdravookhraneniya SSSR V.V.Yermakov. (PHARMACY, education in Russia)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YEMANOV, V.V., kandidat moditeinskikh nauk; SAVCHEMO, M.G.

Institutes for postgraduate training of physicians and their rele in specializing and advanced training for physicians in the U.S.S.R. Sov.med. 19 mo.6:68-76 Je '55. (MEAR 8:9)

1. Is Glavnogo upravleniya uchebayni sevelenismi Ministerstva Edravockhraneniya SSCR. (MUCATION, MEDICAL, in Bassia, postgraduate training)

(SPECIALISM, in Russia, postgraduate training)

YERMAKOV, V.V., kandidat meditsinskikh nauk (Moskva); SOVCHERKO, M.G.
(Noskva)

Advanced training by correspondence for directing personnel in the public health service. Sov.med. 20 no.7:76-77 J1 '56.
(FUBLIC HMAIFH, educ. (MLRA 9:10) in Russia, correspondence courses for leading teams)

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... YERMAKOV, V. V.

3-5-14/38

AUTHORS:

Yermakov, V.V., Doctor of Medical Science, Dotsent and Staro-

binskiy, I.M., Professor

TITLE:

To Solve in a More Active Way the Tasks Set by "The Letter I-100" (Aktivneye reshat' zadachi, postavlennyye "Pis'mom I-100") Success Depends on the Initiative of the Chairs

(Uspekh zavisit ot initsiativy kafedr)

PERIODICAL:

Vestnik wysshey shkoly, 1957, Mr 5, pp 38-41 (USSR)

ABSTRACT:

The author states that measures taken in accordance with the instructions of "Letter I-100" are now beginning to show results.

The schedule of the first Medical Institute of Moscow provides 5 days school work and one day practical work at chairs, clinics and laboratories. At the clinic of Professor N.N. Yelanskiy, for instance, (IVth course of the medical faculty) there were 39 operations performed in three days, in which students assisted. 14 operations were carried out by the students under the direct supervision of the professor.

There are, however, medical institutes, which do not comply with the "Letter I-100". G. Savastenko, Dotsent at the Minsk Medical Institute states in the newspaper "The Soviet

Card 1/4

3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100". Success Depends on the Initiative of the Chairs

The second of th

Medical Man" (Sovetskiy Medik) No 6-7, 1957, that some chairs still do not take these instructions seriously enough.

This is true of the Voronezh Medical Institute. The collective of this Institute consisting of 100 Professors, Dotsents and Candidates of Science, and 180 Teachers and Assistants, do not show enough interest in this very important document.

The author believes that a number of lectures can be reduced for various disciplines, such as "Physiology" (132 hours), "Anatomy of Man" (118 hours) "Biology" (86 hours). There is also the possibility of reducing the group practical work. The author proposes to divide the practical work into three sections. First: work of demonstrative character, e.g. practical work on physiology and pathological physiology; second: more active, but supervised work (e.g. surgical obstetrics, surgery); third: independent work. Students of the VIth course should not take part in the clinical work of the IInd and IVth course, as is done at the Ist Medical Institute of Moscow. Attention is invited to the work of the Minsk, Vitebsk, Stavropol' and Stalino Medical In-

Card 2/4

3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100". Success Depends on the Initiative of the Chairs

stitutes which prepare students for their future working conditions and practical work.

The system of examinations on practical work must be carefully considered. The author suggests the teacher examine the student on his work but not by a systematic test. The introduction of intermediate examinations in the IInd course on anatomy, hystology, physiology and biological chemistry was made for the purpose of improving the quality of training and permitting the Vuzes to expell unsuccessful or lazy students. This right, however, is not efficiently utilized.

The author states that a new system of distribution of scholarships will systematize the evaluation of a student's knowledge and increase the requirements in examinations. Because of the increased independence in their instruction and more free time for this work, the students need good manuals. The activity of professors and teachers in this matter must be increased to assure the success of "Letter I-100".

It appears that many medical institutes neglect instructivemethodic work. This, however, is not the case with the Riga Institute of Medicine, where good results have been obtained.

Card 3/4

3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100", Success Depends on the Initiative of the Chairs

ASSOCIATION: The Administration of Staff and Educational Institutions of

the Ministry of Health, USSR (Upravientye kadrov i ucheb-

nykh zavedeniy Ministerstva zdravookhraneniya SSSR)

AVAILABLE: Library of Congress

Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

JENARDY, V.V.; SAYCEMED, M.G. (Moskva).

Graduate studies by correspondence of the leaders of public health workers. Cook. sdravot. 5 nc.1:42-45 Jan 57.

(PUBLIC HEALTH, educ. graduate studies by correspondence (Cs))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.V., dotsent; STAROBINEKIY, I.M., prof.; KOZLOV, A.M., dotsent

Forty years of higher medical education in the U.S.S.R. Sov.sdrav.
(MIRA 10:12)

(EDUCATION, MEDICAL, hist.
in Russia)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.V., dotsent; STAROBINSKIY, I.M., prof.

Problems of prophylaxis in higher medical education. Sov.med. 21 (MIRA 11:1)

1. Is Upravleniye kadrov i chebnykh savedeniy Ministerstva sdravo-okhraneniye SSSR. (MUDICINE, PREVENTIVE, educ.)

addeterration of a state of the state of the

THRMAKOV. V.K., dotsent., SAVCHENKO, M.G.

The present status and the future of regular and advanced training for physicians in public health work. Sov.sdrav. 17.no.1017-10 0 158 (NIRA 11:11)

1. Is Upravieniya kadrov i uchebnykh savedeniy Ministerstva sdravookhraneniya SSSR.

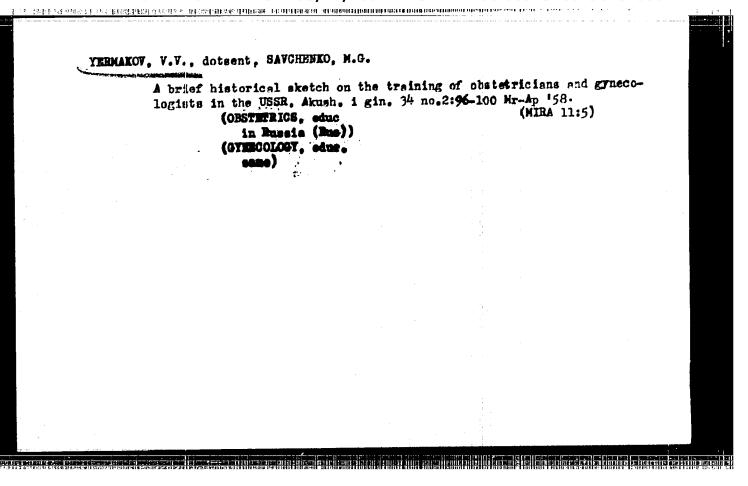
(SANITATION, educ.
in Russia (Rus))

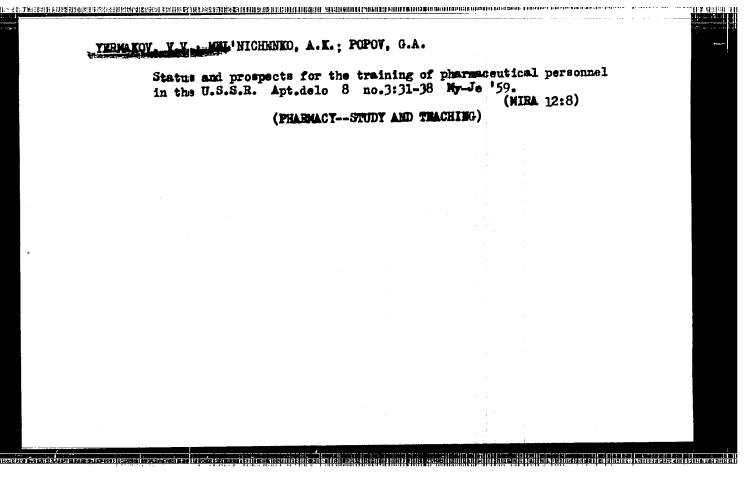
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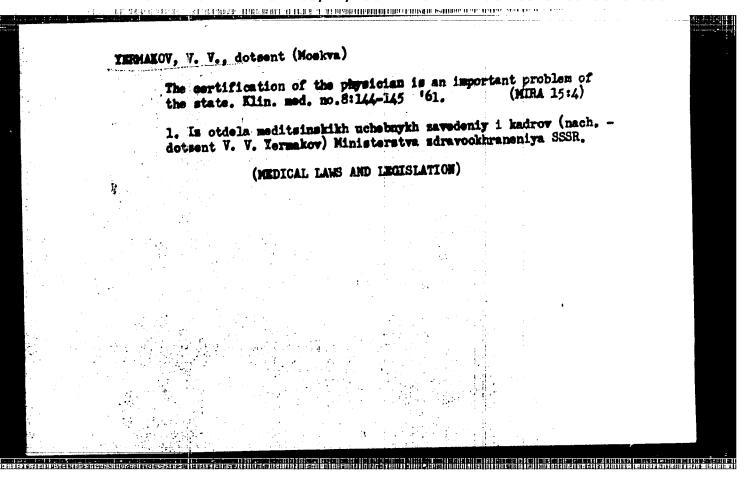
State of industrial practice of students in medical institutes. Sov.med. 22 no.78145-150 Jl '58 (MIRA 11:10) 1. Essectitel' machal'nika Upravleniya kadrov i uchebnykh savedeniy Ministerstva sdravochhraneniya SSSE. (SCHOOLS, Medical med. student train. in indust. practice (Rus)) (IBUUSTRIAL HTGIRES. sere (Rus))

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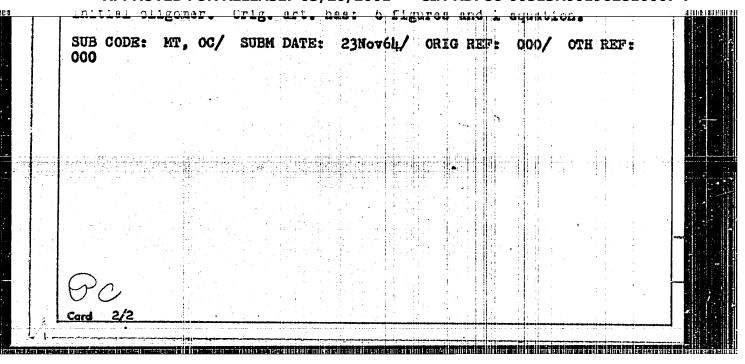






YKRMAKOV, V.V., dotsent; BARAKOVSKIY, V.V.

Disclinte tasks in the advanced training of subprofessional medical personnel. Med. sestra 20 no. 2:10-14 F 161. (MIRA 14:4) (MEDICINE—STUDY AND TEACHING)



RAPOPORT, R.I.; KOKOVIKHINA, K.I.; VARSHAVER, N.B.; YERMAKOVA, M.N.; KOLESOV, I.M.; ROZINA, N.Ye.

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Cultivation of a strain of diploid cells of the lungs of a human embryo. Vop. virus. 10 no.2:187-191 Mr-Ap 65.

(MIRA 18:10)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

20951 8/079/61/031/004/005/006 B118/B208

2209, 1274, 1282 5.3700

AUTHORS:

Andrianov, K.A., and Yermakova, M.N.

Formation reactions of triethyl-siloxy-borosiloxanes TITLE:

Zhurnal obshchey khimii, v. 31, no. 4, 1961, 1310 - 1312 PERIODICAL:

TEXT: For the purpose of synthesizing triethyl-siloxy-diethoxy-boron, the authors of the present paper studied the reaction of triethyl-hydroxy--silane with boric acid ethyl ester. Experiments disclosed that tris--triethyl-siloxy-boron is formed even by reacting boric acid ethyl ester with triethyl-hydroxy-silane in a molar ratio; triethyl-siloxy-diethoxy--boron could not be separated. The latter is probably subjected to disproportionation during distillation, forming a stable compound, namely tris-triethyl-siloxy-boron. In subsequent experiments, boric ester was first condensed with triethyl-hydroxy-silane, combined with a distillation of the alcohol separated during the reactions

Card 1/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

20951

S/079/61/031/004/005/006 B118/B208

Formation reactions of ...

Then, diethyl-diacetoxy-silane was added, and the reaction mixture heated again to expel the ethyl acetates

 $2\left((c_{2}H_{5})_{3}Si0\right)_{2}B(OC_{2}H_{5})+(c_{2}H_{5})_{2}Si(OCOCH_{3})_{2}\longrightarrow 2c_{2}H_{5}OCOCH_{3}+$

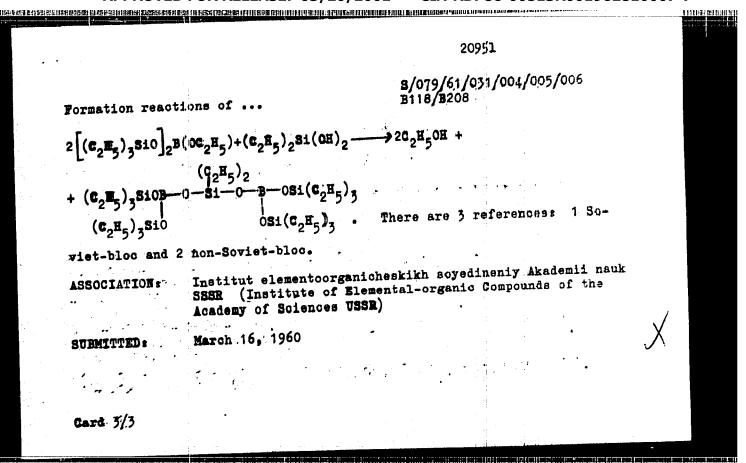
 $+(c_2H_5)_3$ sio-B-O-Si-O-B-OSi(c_2H_5)₃ (2

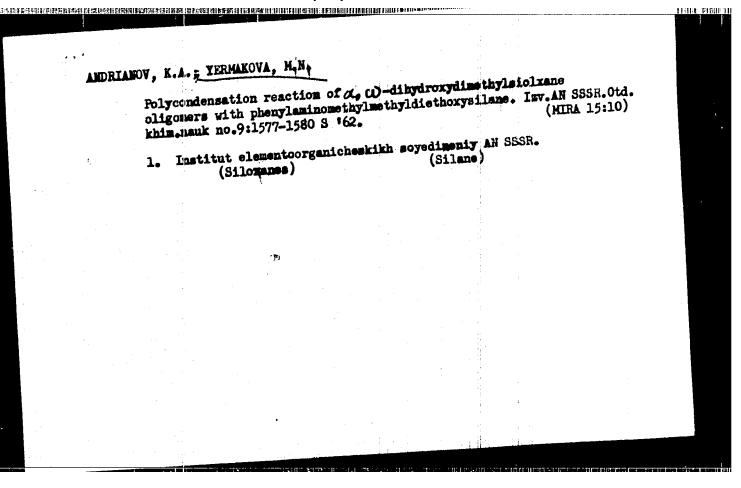
(C2H5)3SiO OSi(C2H5)3 . Twofold vacuum distillation gave 1.5-

-bis(triethyl-siloxy-boro)-3-diethyl-diborosiloxane in a yield of 24.7%
1.5-bis(triethyl-siloxy-boro)-3-dimethyl-diborosiloxane is easily obtained according to reaction (2), if dimethyl-diacetoxy-silane is used instead of diethyl-diacetoxy-silane. Reaction of the condensation product of triethyl-hydroxy-silane with the boric ester of diethyl-silanediol gives also easily 1.5-bis(triethyl-siloxy-boro)-3-diethyl-diborosiloxane:

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"





ANDRIANOV, K.A.; YEMAKOVA, M.N.

Synthesis and polymerisation of bis and tris (trialkylsilary)
tin methacrylate. Tysokom.soed. 5 no.22217-221 T 163.

1. Institut elementoorganicheskikh soyedineniy AN 3858.

(Tin organic compounds) (Nethacrylic acid)
(Folymerisation)

ACCESSION NR: AP4025009 8/0062/64/000/003/0454/0457

AUTHOR: Andrianov, K. A.; Kusnetsova, I. K.; Yermakova, M. N.

TITLE: Polydimethylsiloxanes containing tris(trimethylsiloxy) and dimethylphosphinoxy terminal groups

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 3, 1964, 454-457

TOPIC TAGS: liquid polydimethylsiloxane, terminal polymer group, tris(trimethylsiloxy) group, dimethylphosphinoxy group, viscous flow activation energy, polymer viscosity, polydimethylsiloxane viscosity, condensation synthesis, polymer synthesis, polymer molecule number

ABSTRACT: New liquid polydimethylsiloxanes containing the above terminal groups were synthesized by condensation of ω , ω -dihydroxydimethylsiloxanes with the dimethylethoxysilylmethyl ester of dimethylphosphinic acid or tris (triwith the dimethylethoxysilylmethyl ester of dimethylphosphinic acid or tris (trimethylsiloxy) ethoxysilane, and some of their properties (molecular weight, methylsiloxy) ethoxysilane, and some of their properties (molecular weight, methylsiloxy) ethoxysilane, activation energy) studied. The reaction formula is

Card 1/3

ACCESSION NR: AP4025009

presented and properties tabulated. In the end products, n, denoting the number of polymer molecules, was equal to 9, 13, 42, 45, 75 and 120. Viscosity in the 20-120C range was higher in polymers with terminal tris (trimethylsiloxy) groups than in those with the dimethylphosphinoxy group for the same degree of polymerization. The logarithm of viscosity, inversely dependent upon temperature, is also figured. The activation energy of viscous flow, calculated according to experimental data in the range studied, decreased upon increasing the distance between the terminal groups, which may point towards a comparatively great influence of these groups, as against that of the dimethylsiloxane groups of the backbone. The synthesis is described. Orig. art. has: 2 formulas, 2 tables and 4 figures.

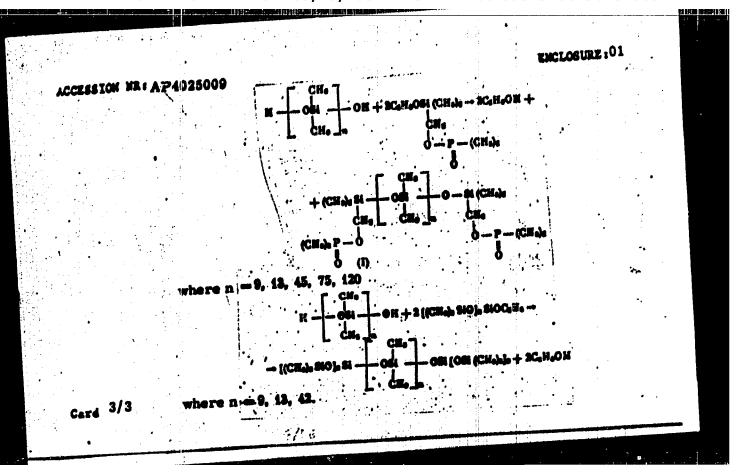
ASSOCIATION: Institut elementoorganicheskikh soedinenniy Akademii nauk SSSR Academy of Sciences, SSSR)

(Institute of Organoelemental Compounds, ENCL: 01

DATE ACQ: 17Apr64 SUBMITTED: 100ct62 OTHER: 001 NO REF SOV: 005

SUB CODE: CH

2/3



NOVIKOV, I.T.; PAVLENKO, A.S.; SMIRNOV, M.S.; CHIZHOV, D.G.; LAVRENENKO, K.D.; HEKRASOV, A.M.; HOSOV, R.P.; TARASOV, N.Ya.; ZHIMERIN, D.G. URORETS, I.I.; DMITRIYEV, I.I.; DROBYSHEV, A.I.; YERMANDV, V.S.; SAPOZHNIKOV, F.V.; BOHOVOY, A.A.; BANWIK, V.P.; DASKOVSKIY, YA.M.; ROGOVIN, N.A.; PETROV, A.N.; MEL'NIKOV, B.V.; LATYSH, D.I.; KONIN, F.P.; DYDYKIN, P.Ye.; BONDAREV, I.I.; GUMENYUK, D.L.; POHEGAYLO, K.M.

Ol'ga Sergeevna Kalashnikova; obituary. Blek. sta. 30 no.2:95
F '59.

(Kalashnikova, Ol'ga Sergeevna, 1914)

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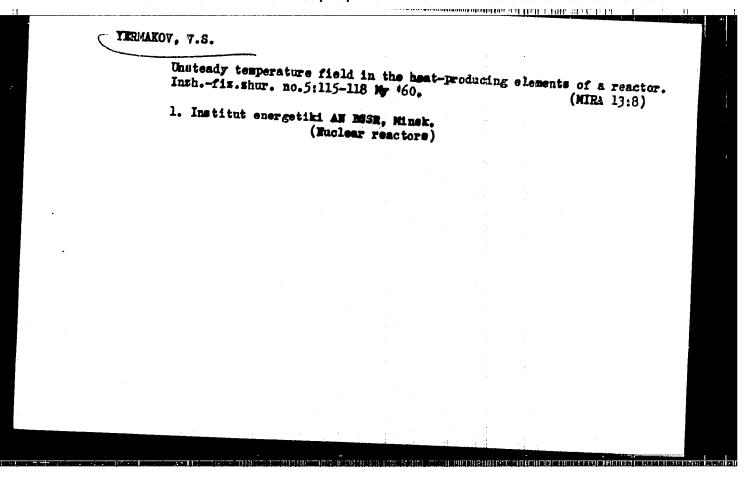
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YERMAIOV, V.S., kand, tekhn. nauk; PEKELIS, G.B., insh.

Method for selecting a version for the introduction of new power into the power system. Elek. sta. 30 no.3:6-11 Mr 159.

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\$/170/60/003/04/24/027 B007/B102

AUTHOR:

Yermakov, V. S.

TITLE:

The Honsteady Temperature Field in Heat Liberating Reactor Elements

Inshenerno-fisicheskiy shurnal, 1960, Vol. 3, No. 4, pp. 127-131 PERIODICAL:

TEXT: Equation (2) for the heat conductivity of the fuel elements in the case of nonsteady operation of a nuclear reactor is written down (Ref. 3). The boundary conditions (3) and (4) for equation (2) are given and the solution of the latter under these boundary conditions yields formula (5). The function $Q(z, \tau)$ must be known in order to calculate the integrals in formula (5). Q(z, r) stands for the specific power of the internal heat source. This function is determined by the propagation of neutrons in the core of the reactor. Formula (16) is derived for this function. This formula holds for supercritical reactor operation without consideration of the influence of the negative temperature coefficient. Formula (16) is substituted in formula (5) which yields formula (17). However, if $Q(z, \tau)$ varies with varying neutron flux according to formula (12) formula (18) is obtained. This is the case with the reactor being supercritical with respect to the delayed neutrons. The distribution of the mean temperature along the rod

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The Nonsteady Temperature Field in Heat Liberating

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of fuel elements at various moments in nonsteady reactor operation can be determined by means of formulas (17) and (18). L. S. Leybenson (Ref. 2) is

mentioned. There are 5 references, 4 of which are Soviets.

ASSOCIATION: Institut energetiki AN BSSR, 6. Minek (Institute of Power Engineering of the AS Belorusskays BSR, CITY of Minek)

Card 2/2

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8/170/60/003/010/022/023 B019/B054

AUTHORS:

Yermakov, V. S., Perel'man, T. L.

TITLE:

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Problems of Nuclear Physics (II All-Union Conference on Low- and Medium-energy Nuclear Reactions)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 10, PP- 139-143

TEXT: The II Vsesoyuznaya konferentsiya po yadernym reaktsiyam pri malykh i srednikh energiyakh (II All-Union Conference on Low- and Medium-energy Nuclear Reactions) was organized in Moscow by the AS USSR on July 21-28, 1960. I. M. Frank, Corresponding Member of the AS USSR, headed the organizing committee. In his opening speech, he pointed cut that the investigation of low-energy nuclear reactions quite naturally deals with the problems of nuclear structure. N. A. Vissov gave a survey of experimental investigations of systems containing less than eight nucleons in the nucleus. Among other things, this report dealt with the existence of a tetraneutron, the isotope H8, and some hydrogen isotopes, hs predicted by Ya. B. Zel'dovich, V. I. Gol'danskiy, and A. I. Baz'. A. I. Baz'

Problems of Nuclear Physics (II All-Union S/170/60/003/010/022/023 Reactions)

S/170/60/003/010/022/023

gave a survey of theoretical investigations of these systems. He mentions the investigation of the three-particle problem for short-range forces carried out by G. V. Skornikov and K. A. Ter-Martirosyan (Ref. p. 140).

L. D. Landau made some critical remarks during the subsequent discussion, ainly on missing levels in one of the mirror nuclei. Further, Ya. B. Col'danskiy suggested the existence of H8 is very likely. V. I. perimental proof of the existence of H8. I. S. Shapiro showed in his report that the m-meson capture does not only supply information on elementary particles, but also on the structure of light nuclei. A. A. investigations on direct interactions of nuclei. A. P. Klyuoharev (Khar' inelastic nucleon scattering. P. E. Nemirovakiy lendt with Lemberg reported on investigations of the discussion of this report. A. S. Lemberg reported on investigations of the Coulomb excitation of nuclear at the Leningradskiy fiziko-tekhnicheskiy institut AN SSSE (Leningrad Card 2/3)

Problems of Nuclear Physics (II All-Union S/170/60/003/010/022/023 Reactions)

S/170/60/003/010/022/023

Institute of Physics and Technology of the AS USSR). In the discussion of this report, experimental results obtained in Dubna were given on the excitation of rotational levels by μ -mesonic transitions of η^{238} atoms. V. I. Gol'danskiy reported on the possibility of a two-proton activity of some nuclei. In an attempt made to explain theoretically the results obtained by Almquist, A. S. Kompaneyets suggested the model of a two-nucleus quasimolecule C12-C12. A. I. Baz' reported on his calculations of a nuclear molecule model. L. D. Landau and A. I. Alkhanov took part in the discussion of R. Moessbauer's report. F. L. Shapiro gave a survey of experimental and theoretical investigations of the resonance scattering of γ-quanta carried out by A. I. Alikhanov et al. Investigations carried out at the FIAN and MGU are also considered. L. Ye. Lazarev and A. M. Baldin reported on experimental investigations of photonuclear reactions, L. V. Groshev and S. P. Tsytko on the radiation capture of nucleons. A. S. Davydov reported on non-axially symmetric nuclei, Yu. T. Grin on the superfluidity of nuclear substance which he had discovered together with A. B. Migdal. Reports delivered by American, Canadian, British, German, and Italian scientists are also discussed. There is 1 Soviet reference.

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s/170/61/004/001/015/020 B019/B056

AUTHORS:

Yermakov, V. S., Zhuk, I. P., Yaroshevich, O. I.

TITLE:

Calculation of Temperature in Fuel Elements of a Nuclear Reactor in Transient Conditions

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 1,

TEXT: The temperature distribution in fuel elements of a water-moderated water-cooled reactor in transient conditions is investigated. The authors proceed from the known set of differential equations for the temperature field of a cylindrical fuel element consisting of rod, airgap, and jacket. This nonlinear differential equation is simplified by assuming mean values of the thermal conductivity coefficient A being a temperature function, for various temperature zones of the fuel element. This simplified

 $=\lambda_{ik}\nabla^2 t_i + Q_i$ (r,7), where i = 1, 2, 3, corresponding to the Card 1/4

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Calculation of Temperature in Fuel Elements 88273 of a Nuclear Reactor in Transient Conditions

S/170/61/004/001/015/020 B019/B056

rod, the airgap or the jacket, and k is the k-th temperature zone. By means of this equation the fuel elements of a BBP (VVR) reactor with a power efficiency of 760 megawatts is investigated. The thermal capacity of the airgap and the jacket are neglected, and the He and Al-mass is assumed to be small compared to the UO2-mass; furthermore, the temperature drop in the Al-jacket is neglected. For the temperature of the core, the following expression is obtained by means of a Hankel-transformation;

 μ_i are the positive roots of the equation $\mu J_1(\mu) = h J_0(\mu)$

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Calculation of Temperature in Fuel Elements of a Nuclear Reactor in Transient Conditions

8/170/61/004/001/015/020 B019/B056

calculating with (15) it is now necessary to know the reactor period as well as the time within which the reactor attains a certain power output. Table 1 shows the results. There are 1 table and 7 references: 5 Soviet,

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering of the AS BSSR, Minsk)

SUBMITTED: August 16, 1960

Legend to Table 1: 1) Time from the beginning of the reactor startup onward. 2) Core radius in mm. t*) Temperature, calculated by means of a hydrointegrator. t**) Temperature calculated analytically.

Card 3/4

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\$/170/61/004/005/011/015 B111/B214

AUTHORS:

Termakov, V. S., Zhuk, I. P., Yaroshevich, O. I.

TITLE:

The problem of nonstationary heat transmission in the fuel elements of a nuclear reactor

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 5, 1961, 96-99

TEXT: The problem of nonstationary heat transmission in the fuel elements of a nuclear reactor is solved in this paper. For this purpose, the simplify-account. It is assumed that the temperature distribution at the beginning of the transient $t(0, r) = \psi(r)$ is nonuniform and that the intensity of the reactor equation. The solution of the dynamic reactor equation with a decay constant τ is found to be:

Card 1/6

$$n = n_0 \left[\frac{\beta}{\beta - \rho} e^{\frac{7}{\beta - \rho}} - \frac{\rho}{\beta - \rho} e^{\frac{\beta - \rho}{L}} \right]. \tag{1},$$

The problem

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where n is the density of thermal neutrons at the beginning of the transient q . the reactivity of the reactor, β the fraction of slowed down neutrons, and L the mean lifetime of neutrons. For the production of heat $Q(\tau)$ in a

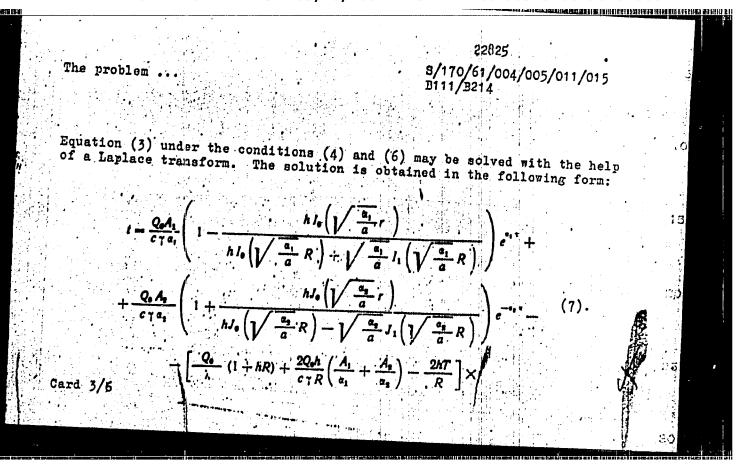
where
$$Q = Q_0[A_1]\sigma_{11} - A_0\sigma_{12}],$$

$$A_0 = \frac{\rho}{\beta - \rho}; \quad A_0 = \frac{\rho}{\beta - \rho}; \quad a_0 = \frac{\beta - \rho}{L}.$$
(2).

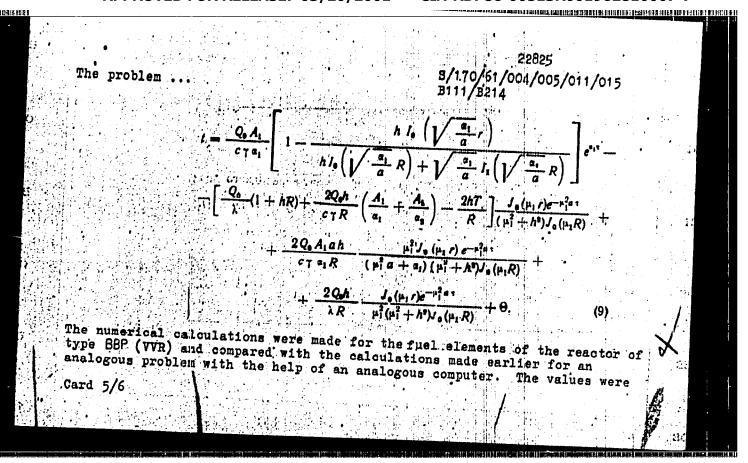
The problem of the radial temperature distribution inside a fuel element may be mathematically formulated in the following manner:

$$\frac{\partial t(r,\tau)}{\partial \tau} = a \left(\frac{\partial^2 t(r,\tau)}{\partial r^a} + \frac{1}{r} \frac{\partial t(r,\tau)}{\partial r} \right) + \frac{Q_0}{c_T} \left(A_1 e^{a_1 \tau} - A_2 e^{-a_2 \tau} \right), \quad (3) \text{ to } (6)$$

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		$\times \sum_{\nu_{i}} \frac{J_{\bullet}(\mu_{i}r)e^{-\nu_{i}^{2}e^{-\nu_{i}}}}{(\mu_{i}^{2}+h^{2})J_{\bullet}(\mu_{i}R)} +$
	4	$\frac{2Q_0 A_1 ah}{c \gamma \alpha_1 R} \sum_{\nu_i} \frac{\mu_i^2 J_0(\mu_i r) e^{-\nu_i^2 a \cdot \nu_i}}{(\mu_i^2 a + \alpha_i) (\mu_i^2 + \overline{h}^2) J_0(\mu_i R)} +$
· 公司		$+\frac{2Q_{0}h}{\lambda R}\sum_{\mu_{1}}\frac{J_{0}(\mu_{1}r)e^{-r_{1}^{2}a_{1}}}{\mu_{1}^{2}(\mu_{1}^{2}+h^{2})J_{0}(\mu_{1}R)}$
		$\frac{Q_0 A_0 ah}{c_7 a_2 R} \sum_{\mu_1} \frac{\mu_1^2 J_0(\mu_1 R) e^{-\mu_1^2 a_2}}{(a_2 - \mu_1^2 a) (\mu_1^2 + h^2) J_0(\mu_1 R)} + \Theta. \tag{7}$
	Here, ware the post	itive roots of the annual
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	value. The simplifi	almost completely 1 second after the beginning of the perature field differs only slightly from the stationary second after the beginning of the led expression is:



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	found to be practically coincident so that both methods can be applied. The solution obtained describes the nonstationary temperature field of the fuel and 3 Soviet-bloc references.	
	ASSOCIATION: Institut energetiki AN BSSR, g. Minek (Institute of Power Engineering, AS BSSR, Minek)	V
	SUBMITTED: February 14, 1961	
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S/170/61/004/012/010/011 B104/B138

21.1000 AUTHORS:

Yermakov, V. S., Sokol'chik, V. A.

TITLE:

The experimental organic loop of the MPT-2000 (IRT-2000) reactor of the Academy of Sciences Belorusskaya SSR

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 12, 1961, 109 - 117

TEXT: This is a report delivered at the Mezhdunarodnoye soveshchaniye poeksperimental nym petlyam yadernykh reaktorov (International Conference on Experimental Loops of Nuclear Reactors) at Dubna on the MPT-2000 (IRT-2000) research reactor of the Institut energetiki Akademii nauk Belorusskoy SSR (Institute of Power Engineering of the Academy of Sciences Belorusskaya SSR), recently put in operation. An experimental loop with an organic coolant was installed in the reactor. The loop is designed for studying organic compounds as to their applicability as coolants. Polyphenyls are also to be examined for their resistance to temperature effects and radiation, and also for their heat-transfer properties. An experimental channel core center for this purpose. The fuel assembly, which can be exchanged card 1/4

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The experimental organic loop of ...

(10 mm in diameter) are housed in stainless steel tubes (40 mm in diameter, wall thickness 0.5 mm). The coolant passes along the gap between tube 1 rods, cooling the latter. Neutron absorption is highest in the core center. The reactivity of the reactor was computed with the aid of the two-group theory, using the digital computer of the Institut atomnoy energii imeni I. V. Kurchatova AN SSSR (Institute of Atomic Energy imeni I. V. Kurchatova AS USSR) and allowing for modifications of design. Results are presented in Fig. 2. The computations were performed by Yu. G. Nikolayev, A. A. Chervyatsov (IAE AN SSSR), and O. I. Yaroshevich (IE AN BSSR) following a program worked out by V. A. Khodakov. Details of the design (Fig. 4) are finally discussed. There are 4 figures.

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering AS BSSR, Minsk)

SUBMITTED: August 12, 1961

Fig. 1. Center of the core assembly.

Fig. 2. Neutron distribution along the reactor radius (burnup of U²³⁵: 20%). Legend: (a) fast neutrons; (b) thermal neutrons; (1) with loop;

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S/170/62/005/008/009/009 B104/B102

AUTHOR:

Yermakov, V. S.

TITLE:

Start of the first Belorussian nuclear reactor

PERIODICAL: Inchemerno-fizicheskiy zhurnal, v. 5, no. 8, 1962, 138-139

TEXT: In May 1962 an 197-2000 (IRT-2000) reactor was put into operation at the Energeticheskiy institut Akademii nauk BSSR (Power Engineering Institute of the Academy of Sciences BSSR). The reactor develops 2000 km. Its moderator, coolant and top shielding are ordinary distilled water. The fuel elements consist of UO2 with 10% U235. Zero-power reactors, accelerators and laboratories are planned in addition. The reactor has ten horizontal and nine vertical holes. It is available to other institutes also. The following alterations were made as compared with into the vertical core hole, is provided with leads to a shielded working shield; (2) A second hot cell was built into the concrete of the biological from the main building to other buildings; (4) control and shielding Card 1/2

Start of the first Belorussian ... S/170/62/005/008/009/009

system were improved; (5) the horizontal holes and the core were also modified. There are 2 figures.

L037L S/170/62/005/009/002/010 B108/B104 AUTHORU: Yermakov V C

Yermakov, V. S., Kondrashov, N. G., Perel'man, T. L., Romashko, Ye. A., Byvkin, V. B.

Temperature field in a cylindrical reactor fuel element cooled by a turbulent flow of liquid

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 9, 1962, 38-43

TEXT: The temperature field of a cylindrical rod heated from inside and cooled at the cutside was studied theoretically in order to gain insight into the processes of heat transfer within a reactor core. For simplicity the heat transfer between rod and coolant is assumed to be convective, the coolant flow to be turbulent (heating of the entire liquid flow), and the heat conductivity as well as all parameters of the problem to be constants. The problem of stationary heat transfer is then

Card 1/4

TITLE:

Temperature field in a cylindrical ... \$/170/62/005/009/002/010 B108/B104

$$\lambda \left[\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial t}{\partial r} \right) + \frac{\partial^{2} t}{\partial z^{2}} \right] = -Q(r, z), \tag{1}$$

$$\gamma cSv \frac{\partial \theta}{\partial z} = P_1 \alpha_1 (t|_{r-R} - \theta) + P_2 \alpha_2 (t_0 - \theta),$$

$$0 < z < L; \ 0 < r < R.$$
(2).

t(r,z) - temperature in the fuel element, θ (z) - temperature in the liquid, t_0 - temperature of channel wall, f and c - density and specific heat of coolant, P_1 and P_2 - perimeters of fuel element and channel. (r,z) can be found from the neutron diffusion equation. The boundary conditions are

 $\frac{\partial \frac{\partial t}{\partial r}}{\partial r}|_{r=R} = \alpha_1 \left(t|_{r=R} - \theta\right),$ $\frac{\partial t}{\partial z}|_{z=L} = 0.$ The approximate solution of this .

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**Emperature field in a cylindrical ... B108/B104

Problem has the form

 $t(r,z) = \sum_{k=0}^{n} (r/R)^{2k} a_k(z).$

Q and V^2 t are approximated by a polynomial of (n-1)-st degree. This leads to a system of n equations for the (n+1) functions $\{a_k(z)\}$. As t(r;z) in general does not satisfy the boundary conditions it is necessary to minimize the unknowns when these conditions are satisfied. The error of this method is made up only of the errors in the heat conduction equation and in the boundary conditions. The problem was solved numerically for various actual parameters. There are 1 figure and table.

ASSOCIATION: Energeticheskiy institut AN BSSR, g. Minsk (Power Engineering Institute AS BSSR, Minsk)

Card 3/4

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ı	Temperature	field in	a cylindrical .		S/170/62/005 B108/B104	/009/002/016	
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en les de la company de la L '30237-66 ACC NR. AP60201.50 UR/0250/65/009/011/0722/0724 SOURCE CODE: AUTHOR: Yermakov, V. S.; Soshina, N. V. ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy TITLE: Determination of uniformity of distribution of activity over a plane source with a large surface SOURCE: AN BSSR. Doklady, v. 9, no. 11, 1965, 722-724 TOPIC TAGS: mathematics, absorption coefficient
ABSTRACT: The article considers the question of the determination of the
uniformity of distribution of activity over the surface of a plane source.
When A(x, y) const, this value can be taken out of the integral sign, and the line of equal intensity can be found by solving the equation A(5, 7)= [[A(x, y) exp (-nr) dady. Then, if several identical detectors are placed on this line, the uniformity of the distribution of activity in a given plane can be judged by comparing the intensities recorded by these detectors. The problem of the authors was to determine lines of equal intensity A(5, h) coast, given the absorption coefficient value a coast for a nime rectangular source of the size 2x₀2y₀. This article was presented by Academician, AN BSSR, A. N. Sevchenko. Orig. art. has: 13 formulas. JPRS7 SUB COLE: 12, 07/ SUBM DATE: 15/00/64/ M

YERMAKOV, V.S.; SOSHINA, N.V.

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Determining the uniformity of the distribution of activity over a two-dimensional source having a large surface. Dokl. AN BSSR 9 no. 112722-724 N *65 (MIRA 19:1)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.S., kand. tekhn. nauk; MINKOV, V.A., kand. tekhn. nauk

Regulation of the load graph of a power system by industrial consumers. Elek. sta. 36 no.6:56-59 Je '65.

(MIRA 18:7)

AUTHORS:

Al'ftan, E.A. and Yermakov, V.S.

SOV/46-4-4-2/20

TITLE:

The Effect of Ultrazound on Ageing of a Nickel--Chromium--Titanium Alloy (Vliyaniye ul'trazvaka na stareniye nikel'-khrom-titanovogo splaya).

PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol 4, Nr 4, pp 307-314 (USSR)

ABSTRACT:

First studies of the effect of elastic vibrations of sonic and ultrasonic frequencies on the internal transformations is notals and allows, including processes of dispersion hardening, were carried out by Gorakiy and Yefremov (Ref 1). They showed that ultrasonic wibrations of 30 kc/s frequency and 10 W/cm2 accelerate natural ageing of duralumin by a factor of 63. This effect was confirmed by Gudtsor and Gavze (Refs 2, 3) and Pogodina-Alekseyeva and Eskin (Ref 5) who investigated dispersion againg of aluminium and ferrous alloys. Herman-Schenck and Schmidtmann (Ref 4) found a 430 kc/s, 6.5 W/cm2 ultrasonic beam to be ineffective as an accelerator of ageing of steels with 0.06% of carbon, possibly because the ultrasonic power was too low. The present authors studied the effect of 20-26 kc/s ultrasonic vibrations on the process of ageing of the KhN.80.T nickel--chromium-titanium alley. Lower frequencies, of 8-16 kc/s, were found to fatigue

Card 1/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

The Effect of Ultrasound on Ageing of a Nickel--Chromium--Titanium Alloy

the operating personnel. Cylindrical samples of the alloy (Fig 1) were used. The apparatus is shown in Fig 2. It consisted of an electric oscillator 1, a selenium rectifier 2, an ultrasonic generator 3, an electric furnace 4 with a thermocouple 5 and a thermostat 6. A sample 7 was attached to the altrasonic generator by means of an extension rod 8 onto which the sample was screwed. The ultrasonic generator consisted of a magnetostriction vibrator a, a transmitting rod b and a casing v. The system consisting of the vibrator, transmitting rod and extension rod together with the sample had dimensions which produced resonance at frequencies of 23-25 kc/s. The sample was placed into the furnace and was heated for 10-15 minutes until an appropriate temperature was reached. Then the sample was aged with the ultrasonic generator switched on. A standing wave was excited in the system consisting of the vibrator, transmitting rod, extension rod The largest stresses and deformations occurred in the middle portion of the sample where the hardness resulting from the ageing process was measured. Ageing was carried out using ultrasound of 23-25 ke/s with 5 µ amplitude of the displacement of the end of the sample. Temperatures of 700, 750 and 800°C and various durations of

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The Effect of Ultrasound on Ageing of a Nickel--Chromium -- Titanium Alloy

the troatment were used. Some samples were irradiated with ultrasound at 700°C, 20-21 kc/s frequency and the displacement amplitude of 8 µ. At the latter amplitude the acoustic energy dissipated in the sample was approximately twice as high as in the case of displacement amplitude of 5 µ. The stresses in the samples aged at 700°C were 2.3-2.7 kg/mm² for the displacement amplitude of 5 µ and 3.3-3.7 kg/mm² for the displacement amplitude of 8 µ. The increase of the ultrasound energy by a factor of two increased the accelerating effect of ultrasound on the ageing process very considerably; at the higher ultrasound intensity ageing was 40-50 times as rapid as the ageing without ultrasound. The increase of the ageing temperature (from the standard temperature of 700°C) to 800°C and simultaneous application of ultrasound was found to produce a further increase in the rate of ageing without lowering the maximum hardness achieved by this process. The results obtained are given in Figs 3-5 and Table 1. These figures

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The Effect of Ultrasound on Ageing of a Nickel--Chromium--Titanium Alloy

show duration of the ageing process against hardness achieved by it. The ageing process was taken to be complete when the sample reached the hardness obtainable after 16 hours at 700°C without ultrasound. Ageing with ultrasound makes it possible to obtain a more highly disperse state of the second phase without any change of its total amount in the alloy. There are 5 figures, 1 table and 8 references, 7 of which are Soviet and 1 German.

ASSOCIATION: Voyenno-vozdushnaya inzhenernaya akademiya im. Mozhayskogo, Leningrad (Air Force Engineering Academy imeni Mozhayskiy, Leningrad).

SUBMITTED: October 8, 1957 - June 5, 1958.

Card 4/4

CKMAROU,

AUTHOR: Yermakov, V.S., Engineer.

96-1-22/31

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TITLE:

The Production of Germanium from Fuel Ash (Polucheniye germaniya iz zoly topliva)

PERIODICAL: ABSTRACT:

Teploenergetika, 1958, Vol.5, No.1, pp. 80 - 81 (USSR) This article gives a brief account of studies made in Great Britain on the germanium content of fine dust from power stations. General information on the distribution of germanium in particular parts of different types of boilers, is given in Tables 1 and 2. The object of the tests was to determine the most suitable type of boiler and ash arrester for trapping ash containing germanium. Experiments showed that variations in the temperature of combustion of fuel and the size of the boiler do not play an important part in increasing the quantity of germanium in the dust. It was also show that an economic method of extracting germanium from the fine dust in boilers There are 2 tables and 3 non-Slavic references.

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AUTHORS: Yermakov, V.S., Engineer and Al'ftan, E. A. 129-58-7-5/17 TITLE:

Accelerated Ageing of the Heat Resisting Nickel Alloy EI437B Subjected to the Effect of Ultrasonics (Uskorennoye stareniye zharoprochnogo nikelevogo splava EI437B

pod vozdeystviyem ul'trazvuka)

PERIODICAL: Metalloyedeniye i Obrabotka Metallov, 1958, Nr 7,

ABSTRACT: Gudtsov, N.T. and Gavze, M. N. (Ref.1) investigated the effect of ultrasonics of 300 - 1500 kc/sec on the dispersion hardening of duraluminium and some ferrous alloys. Schenk, G. and Schmidtmann, O. (Ref.2) studied the influence of ultrasonics of 430 kc/sec with a specific power of 6.5 W/cm² on the ageing of basic Thomas steel containing 0.06% C at 20°C. Gorskiy, F.K. and Yefremov, V. I. (Ref.3) stated that ultrasonics of 30 kc/sec and a specific power of 10 W/om2 accelerate 63-fold the natural ageing of an alloy containing 4.5% Cu. O.8% Mg and O.5% Si. Pogodina-Alekseyeva, K. M. and Eskin, G. I. (Ref.4) found that duraluminium ages at room temperature 20 to 25 times faster in an ultragonics field Card 1/3 of 1 Mc/sec with a specific power of 1.6 W/cm² than without

Accelerated Ageing of the Heat Resisting Nickel Alloy E1437B Subjected to the Effect of Ultrasonics

using ultrasonics. According to Gudtsov and Gavze (Ref,1) the effectiveness of ultrasonics as regards ageing is independent of the frequency of oscillation in the range of 300 to 1500 kc/sec and it is this conclusion which forms the basis of the investigations of the authors of this paper, who believed that it is advisable to apply apparatus ensuring a maximum intensity of ultrasonics. In the experiments they used a magnetostriction ultrasonics generator (20 to 26 kc/sec), a sketch of which is shown in Fig.1, p.23. The regimes and the results of shown in Fig.1, p.23. The regimes and the results of ageing in an ultrasonic field of the Soviet alloy EI437B are entered in a table, p.25. The graphs, Figs. 2-4, show the change in hardness of the EI437B alloy at various temperatures with and without the use of ultrasonics. On the basis of the obtained results the following conclusions are arrived at: ultrasonics of 20 to 26 kc/sec accelerate ageing of the alloy EI 437B; doubling of the intensity of the ultrasonics in the specimen brings about a considerable increase in the effect of the ultrasonics on

Card 2/3 the process of ageing and permits reducing the duration

Accelerated Ageing of the Heat Resisting Nickel Alloy EI437B Subjected to the Effect of Ultrasonics

of ageing 40 to 50 times compared with the standard regime; application of even very weak ultrasonics during ageing at 800°C eliminates the influence of coagulation and produces the required hardening of the alloy 15 to 20 regime.

There are 4 figures, 1 tables and 6 references, 5 of which are Soviet, 1 German.

ASSOCIATION: Leningradskaya voyenno-vozdushnaya inzhenernaya akademiya (Leningrad Military Aviation Engineering Academy)

Card 3/3

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.S.

AUTHOR:

Yermakov, V.S.

32-1-48/55

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TITLE:

A Rotating Accessory to the Metallographic Microscope Type

MIM-7

(Povorotnoye prisposobleniye k

metallograficheskomu mikroskopu tipa "MIM -7").

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 1, pp. 112-112 (USSR)

ABSTRACT:

The accessory attachment to the aforementioned microscope consists of a pair of gear wheels, of which the larger serves as the movable table for the microscope, and the smaller serves the purpose of driving the former, one of the holes of the fastening screws of the microscope support being used as a lower bearing. The samples are placed upon the movable plate (larger gear wheel) in such a manner that, by moving the driving shaft with the small gear wheel they can, one by one, be brought before the objective, or, if the sample is in the center of the movable plate, it is caused to perform circular movements and is alternatingly illuminated and exposed in various of its parts in polarized light. A uniform (shock-free) motion of the object to be investigated is assured. The circular motion of the sample may also be limited to

Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

A Rotating Accessory to the Metallographic Microscope Type MIM-7

32-1-48/55

a certain angle. For this purpose the angular degrees are marked on the edge of this movable plate, and an indicator is mounted in a suitable position. The said movable plate (large gear wheel) has its own ground plate, which is fastened to the table of the microscope. There is 1 figure.

AVAILABLE:

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Card 2/2

1. Microscopes-Adapters-Test methods

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

AUTHOR:

Yermakov, V. S.

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TITLE:

The Metallography of Non-Ferrous Metals in Polarized Light (Tavetnaya metallografiya v polyarizovannom svete)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7,

pp. 838 - 838 (USSR)

ABSTRACT:

This investigation was conducted with a metallographic microscope of the type MIM-7 to which a polarizer and an analyzer were mounted. A cellophane foil with a thickness of 0,05 mm was used as "color sensitive film". A number of colored microphotographs of the alloy EI 437 in various azimuthal positions are reproduced. It may be seen that different grains with a differing crystallographic orientation are differently colored. When the stage of the microscope is rotated the color changes and then returns to the original tinge. By means of some other microphotographs it is shown that this method permits microscopic determinations not only with small, but also with more powerful optical magnifications (1:1530). The contrast in color, however,

Card 1/2

is reduced. In investigations of cast alloys the dendrite

The Metallography of Non-Ferrous Metals in Polarized Light

sov/32-24-7-24/65

formations which exhibit a different crystallographic orientation can be sharply distinguished. Some microphotographs of cast aluminium, copper alloys and zinc are given as well. It can be easily distinguished, which crystallites belong to a certain dendrite. There are 5 figures and 6 references, 2 of which are Soviet.

Card 2/2

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SOV/129-59-4-3/17 AUTHOR: . V. S. Yermakov (Engineer)

TITLE: Cyclic Ageing of Refractory Steels of the Type EI437

(Tsiklicheskoye stareniye zharoprochnykh splavov

tipa EI437)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,

1959, Nr 4, pp 14-19 (+ 1 plate) (USSR)

ABSTRACT: The method of cyclic ageing consists in dombining the effect of temperature on a hardened alloy with cyclically

varying stresses produced artificially in the alloy. This is done to accelerate ageing. Various authors studied the combined influence of temperature and static

stresses on the process of decomposition of solid solutions of alloys (Refs 3-5) and also the influence on these processes of internal stresses which are generated

during decomposition of solid solutions (Refs 6,7). Some of the authors pointed out that static stresses accelerated the decomposition of solid solutions. The author investigated the influence of cyclic stresses on the process of ageing of alloys of the type EI437. The cyclic stresses during ageing can be produced thermally

by subjecting the alloy to repeated cyclic heating and Card 1/5 cooling in a certain range of temperatures.

SOY/129-59-4-3/17 Cyclic Ageing of Refractory Steels of the Type EI437 non-uniform deformation in the individual layers considerable thermal stresses will occur, the magnitude of which will depend primarily on temperature gradient and also on the coefficient of linear expansion and the modulus of elasticity of the alloy concerned. A characteristic feature of "thermal cycle ageing" is that it proceeds at a variable temperature. The experiments were carried out using flat and cylindrical laboratory specimens, sketches of which are reproduced in Fig 1, made of deformable refractory nickel-chromium alloys EI437, EI437A and EI437B. To achieve various heating speeds the specimens were heated by various methods: in salt baths, by direct passage through them of an electric current, by high frequency current, and in an ordinary electric furnace which was considerably hetter than the specified maximum temperature of cyclic ageing. A batch of specimens were quenched in water at room temperature; another batch were cooled by air compressed to 3 - 4 atm. In Fig 2 (p 15) the standard 700°C, 16 hours ageing curve is graphed for the alloy EI+37A, Card 2/5 and also the ageing curve for thermal cycle ageing at For the cyclic ageing 700 ± 20°C, (quenching in water).

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SOV/129-59-4-3/17 Cyclic Ageing of Refractory Steels of the Type E1437

the heating was effected in a salt bath with a heating duration of 60 sec and a cooling duration of 5 sec. In Fig 3 (p 16) the dispersion hardening curves are graphed for the alloy EI437 in the case of thermo-cyclic ageing at 700 ± 2000 with quenching in water, using various methods of heating of the specimen. As compared to ordinary ageing, heating by passage of an electric current brings about a 50-fold acceleration of the hardening of the alloy; high frequency heating results in a 100-fold acceleration of the hardening. In Fig 4 the variation is graphed in the quantity of the intermetallide phase of the alloy EI437A during thermo-cyclic ageing as a function of the ageing time. In Fig 6 the variation is graphed of the hardness along the cross-section of a cylindrical EI437 specimen of 7 mm diameter after thermo-cyclic ageing. In Fig 7 the dependence is graphed of the long duration heat resistance of the alloy EI437A on the type of thermal cycle ageing and on the number of cycles. In Fig 8 the dependence on the number of cycles is graphed of the long duration heat resistance

of the alloy EI+37B after thermal cycle ageing with

SOV/129-59-4-3/17

Cyclic Ageing of Refractory Steels of the Type EI437

heating in an electric furnace. In Fig 9 the dependence on the number of cycles and on the type of thermo-cyclic ageing is graphed of the long duration heat resistance of the alloy EI437. On the basis of the obtained results the following conclusions are arrived at: 1) Thermal cycle ageing of type EI437 refractory alloys enables obtaining tens of times more rapidly at the surface of the specimen, the same degree of hardness as is obtained during ordinary ageing. 2) During thermal cycle ageing only the surface layer of the specimen will be subjected to accelerated hardening whilst the core will only become partially hardened. As a result of this the strength of the specimen will usually be lower than in the case of ordinary heat treatment. 3) The heat resistance of EI437 type alloys after thermal cycle treatment will in a number of cases be lower than the current value of the heat resistance. 4) Thermal cycle ageing can be applied only if the components manufactured from such an ageing

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Cyclic Ageing of Refractory Steels of the Type BI437

alloy need not have a high surface strength combined with a relatively tough core.

There are 9 figures and 8 Soviet references.

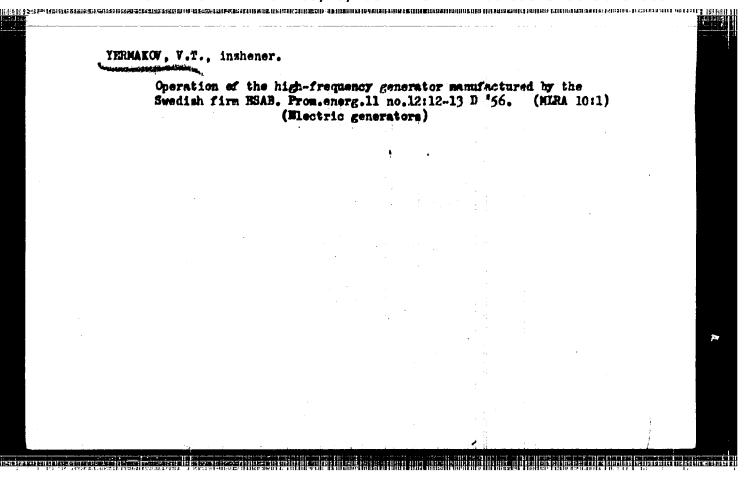
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YERMAKOV, V.S., kand. tekhn. nauk, glav. red.; LEONKOV, A.M., red.; MINKOV, V.A., red.; PEKELIS, G.B., kand. tekhn. nauk; RESHETNIKOV, D.V., red.

[Coverage of fluctuating electrical loads in electric power systems] Problemy pokrytila peremennykh elektronagruzok v energosistemakh. Minsk, Nauka i tekhnika, 1965. 144 p. (MIRA 18:10)

1. Nauchno-tekhnicheskaya konferentsiya po problemam pokrytiya pikovykh nagruztk objedinennoy energosistemy Severc-Zapada. Minsk, 1965.



AUTHOR: Yermakov, V.T. (Engineer)

133-8-16/28

TITLE:

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Piercing of stainless steels at an insufficient capacity of the induction motor. (Proshivka nerzhaveyushchikh staley pri nedostatochnoy moshchnosti asinkhronnogo dvigatelya).

PERIODICAL: "Stal:" (Steel), No.8, 1957, p.732 (USSR).

ABSTRACT: A feeding installation for the motor of the piercing mill on the Yuzhnotrubny Works (two reactive feeders operated by closing sectional disconnecting switch) which permits short time overloading of the motor, is described (Fig.1). This prevents culting off of the motor during the piercing of stainless steel billets. The latter steel is particularly sensitive to changes in temperature during the piercing period, e.g., piercing of a billet of 215 mm dia. at 1200 C takes place at a load of 4000 Kw and at 1180 C the load increases to 5000 Kw.

There is 1 figure.

ASSOCIATION: Yuzhnotrubnyy Zavod . (Southern Pipe Works)

AVAILABLE: Library of Congress

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AUTHOR 8

Yermakov, V.T. (Engineer)

SOV/94-58-9-7/30

LITLE 2.

The use of synchronous motor drive on pipe mills. (Primeneniye sinkhronnogo dvigatelya dlya privoda truboprokatnykh stanov.)

PERIODICAL:

Promyshlennaya Energetika, 1958, No.9. pp. 20. (USSR)

ABSTRACT 2

The production of seamless steel tubes is briefly described. At the Southern Pipe works the automatic pipe mill was driven by a wound rotor induction motor of 800 kW and 600 r.p.m. A flywheel was used. It was decided to replace the induction motor by a synchronous motor partly because the old induction motor needed a major overhaul and partly to increase the output. The starting conditions are not easy even after the flywheel was removed, nevertheless they were found acceptable for use with a synchronous motor type DSZ-1707-8, of 825 kV. 1100 kVA. The starting period was 3 - 4 seconds and the mill could be stopped in 17 seconds. As a result of installing the synchronous motor the power factor was changed from 0.7 lagging to 0.8 leading and the increase in motor speed from 600 to 750 r.p.m. increased

Card 1/2

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The use of synchronous motor drive on pipe mills. SOV/94-58-9-7/30

the mill output. The motor is working satisfactorily.

ASSOCIATION: Nikopol'skiy yuzhnotrubryy zavod (Nikopol' Southern Pipe Works)

1. Electric motors--Applications 2. Electric motors--Performance

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

S/133/60/000/011/016/023 A054/A029

AUTHOR:

Yermakov, V.T., Engineer

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TITLE:

Modernized Power Line of the Automatic Mill in the 400-mm Tube

Rolling Installation

PERIODICAL: Stal', 1960, No. 11, p. 1025

TEXT: In July 1959 the drive of the automatic mill of the 400-mm tube rolling installation of the Yuzhnotrubnyy Plant was reconstructed: the fly-wheels having a total weight of 30 tons essential for operating the slip regulator of the asynchronous motor were removed, the asynchronous motor (capacity 1,325 kilowatts) was replaced by a synchronous motor of 2,300 kilowatt capacity at 500 rpm and producing a rolling speed of 4 m/sec. It will no doubt be known that the automatic mill works irreversibly and the load - at the start of rolling - is taken over by the rollers with a certain impact, after which follows the rolling of the tube on the mandrel for 2.5-3 seconds. When measuring the moments of resistance in the spindles by the tensiometric method this impact can be observed very clearly in the initial stage of the operation, whereas it was found from oscillographic observations of the synchronous motor that the peak load, when rolling is started, is not reached instantly, but Card 1/2

S/133/60/000/011/016/023 A054/A029

Modernized Power Line of the Automatic Mill in the 400-mm Tube Rolling Installation

after 0.15 sec. Experiments show that the removal of flywheels promote a smooth operation of the power line and extends the useful life of some important parts of the equipment, especially that of the bronze bushes of the Ortmann coupling and its protecting pins, as well as that of the hinged couplings of the spindles. However, when removing the flywheels from the drive, the capacity of the Bibby coupling connecting the drive and the reduction gear of the mill must be increased. The use of synchronous motors in the drive of the automatic tube rolling mill improves the economic-technical indices of this aggregate and reduces the cost of the electric installation in this type of tube rolling mills. There are 3 figures.

ASSOCIATION: Yuzhnotrubnyy zavod (Yuzhnotrubnyy Plant)

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

D

YERMAKOV, V.T.

Replacement of asynchronous motors with synchronous motors for driving pipe-rolling mills and methods for selecting their power rating. Prom. energ. 16 no.4:14-16 Ap 161. (KIRA 14:9) (Rolling mills-Electric driving)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

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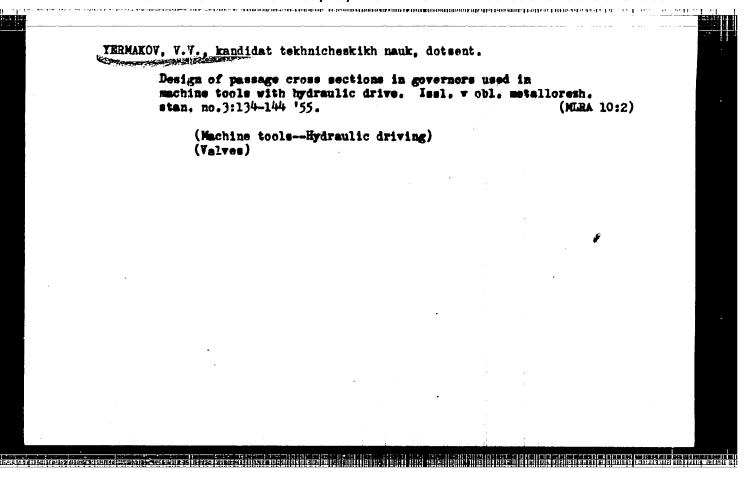
- 2. USSR (600)
- 4. Technology
- 7. Principles of computing hydraulic drive. Moskva, Mashgis, 1951

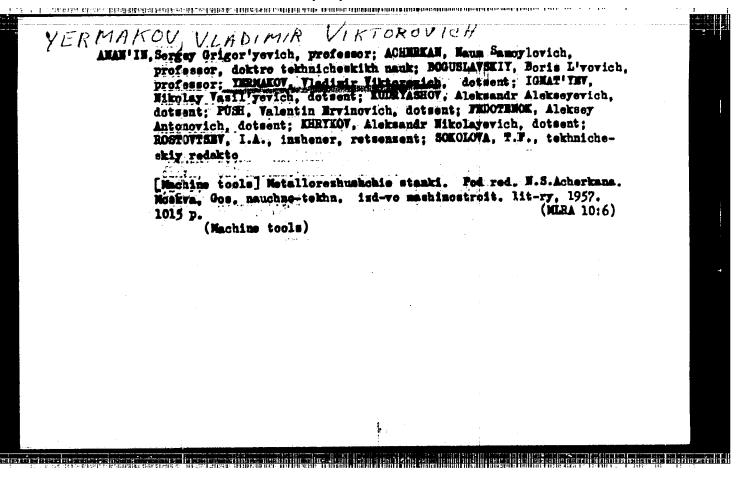
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

YERMAKOV, V. V.

"Investigation of the Stability of Telegraphic Communication During Work on Channels of Tenal Telegraphy." Gund Tech Sci. Nature Electrical Engineering Inst of Communications, Min Communications, Moscow, 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)





SOV/123-59-16-64504

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 122 (USSR)

AUTHOR:

Yermakov, V.V.

TITLE:

Heat Treatment in the Flux During Drop Forging

PERIODICAL: Tr. Taganrogak, radiotekhn. in-ta, 1957, 3, Nr 2, 297 - 304

ABSTRACT:

Conditions of isothermic treatment are established, which is recommended instead of the labor-consuming annealing and normalizing operations after drop forging. The tests were carried out with the steel grades: 40, 40Kh, USA. The isothermic treatment was effected at a temperature of 500-650°C in the course of from 10 seconds to 2 minutes. Samples of steel 40, with a diameter and height of 20 mm, were subjected to deformation after heating them at 800°C. The degree of deformation was regulated from 12 to 40%. Intervals of the decomposition of austenite were established, C-shaped diagrams for details of small size were drawn up, and the influence of deformation on the kinetics of the austenite conversion was studied. As a result of deformations, the conversion of austenite in an isothermic medium slows down and the curves of the termination of decomposition on the C-shaped

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Heat Treatment in the Flux During Drop Forging

80V/123-59-16-64504

diagram shift to the right. For the cases investigated a temperature of the medium of 550°C is recommended. At this temperature the decomposition time of austenite is 2.5 - 3.0 minutes. The important economic effectiveness of the isothermic treatment process in the flux during drop forging is emphasized. 6 figures.

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Card 2/2

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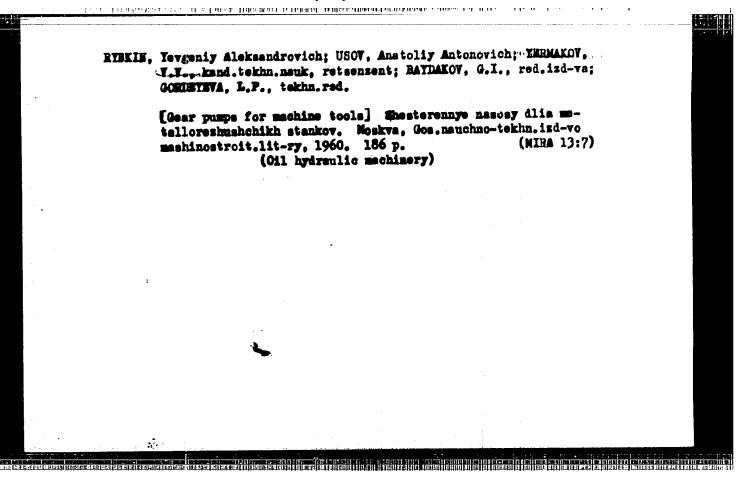
YFRMAKOV, V. V.

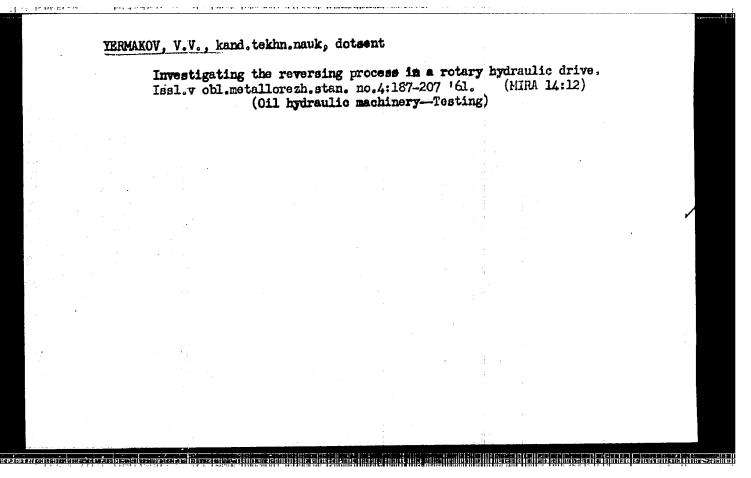
ACHERKAN, M.S.; YERMAKOV. V. V.; IGHAT 'YEV, M.V.; KAUFMAN, L.M.; PUSH, V.E.; FEDOTEROK, A.A.; KHARIZOMEROV, I.V.; KHRYKOZ, A.M.; VLASKIN, P.S.; kandidat tekhnicheskikh nauk, dotsent; GANDLER, A.V.; kandidat tekhnicheskikh nauk, dotsent; ALBESEYEV, P.G., kandidat tekhnicheskikh nauk.

"Machine tools" by V.A.Bravichev and others. Reviewed by N.S.
Acherkan and others. Vest.mash. 37 no.5:87-91 My 157. (MLRA 10:5)

1.Kafedra "Metalloreshushchiye stanki" Moskovskogo stankoinstrumental'nogo instituta (Acherkan, Yernakov, Ignat'yev, Kaufman, Push, Fedetenok, Kharisomenov, Khrykos)
(Maghine tools)

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TERMANOY. V.V.; LESHCHEMKO, V.A., kand. takhn. nank, retsensent;
https://doi.org/10.1016/j.ps.com/processes/files/

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ACHERKAN, Naum Samoylevich, zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof.; GAVRYUSHIN, A.A.; YERMAKOY, V.V.; ICNAT'YEV, N.V.; KAKOYLO, A.A.; KUDINOV, V.A.; KUDHYASHOV, A.A.; LISITSYN, N.M.; MIKHEYEV, Yu.Ye.; PUSH AND A. TROFFMON O.N.; FEDOTENOK, A.A.; KHOMYAKOV, V.S.; ABANKIN, V.I., inzh., retsenzent

[Metal-cutting machines in two volumes] Metallereshushchie stanki. [v dvukh tomakh]. Pod red. N.S.Acherkana. Moskva, Mashinostroenie. Wel.2. 2. perer. izd. 1965. 628 p. (MIRA 18:12)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

ACHERKAN, N.S., doktor tekhn. nauk, prof., zasl. deyatel nauki i tekhniki RSFSR; GAVRYUSHIN, A.A., kand. tekhn. nauk; YERMAKOV, Y.V., kand. tekhn. nauk, dots.; IGNAT'YEV, H.V., kand. tekhn. nauk, dots.; KAKOYLO, A.A., inzh.; KUDINOV, V.A., kand. tekhn. nauk; KUDRYASHOV, A.A., kand. tekhn. nauk, dots.; LISITSYN, N.M., kand. tekhn. nauk, dots.; MIKHEYEV, Yu.Te., dots.; FUSH, V.E., doktor tekhn. nauk, prof.; TRIFONOV, O.N., kand. tekhn. nauk, dots.; FEDOTENOK, A.A., doktor tekhn. nauk, prof.; KHOMYAKOV, V.S., kand. tekhn. nauk; ABANKIN, V.I., inzh., retsenzent

[Metal cutting machines] Metallorezhushchie stanki. Moskva, Mashinostroenie. Vol.1. 1965. 764 p. (MIRA 18:10)

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位数数分析 化光线器 医结合性皮肤的 数汇票 联络桶板 在一个位置上线线接触,但由线线接触,但由线线相对,但并有用的分析。1994年间的时间的时间,这种中国的中国

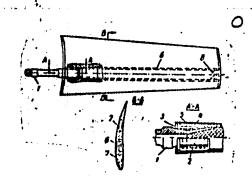
Card 1/2

FDN/WW/EM/RM IJP(c) EVT(m)/EVP(w)/EVP(v)/EVP(j)/EVP(k) SOURCE CODE: UR/O413/66/000/007/0043/0044 T. 08999-67 ACC NR: AP6012124 AUTHORS: Leont'yov, N. N.; Malakhovskiy, A. E.; Zakharov, M. A.; Pershutov, G. G.; Petrov, S. P.; Yermakov, V. V.; Komkov, A. N. ORG: none TITIE: A blower blade. Class 27, No. 180289 SOURCE: Izobrateniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 43-44 TOPIC TAGS: blade profile, rotor blade, industrial blower, ventilation fan ABSTRACT: This Author Certificate presents a blower blade fastened by a shaft and a coupling section to the sleeve of the driving wheel. The design increases the operating reliability under alternating loads. The shaft, at the point of fastening to the blade, has a longitudinal cross section made up of two frustums of a cone, combined along the smaller bases. These frustums are coated together with the entire blade by an overall layer of glass-reinforced plastic. This layer is tightly drawn together by means of a split tapored metal bushing and a disengaging coupling section (see Fig. 1). These units are coated with a subsequent UDC: 621.631.4-253.5

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ACC NR: AP6012124

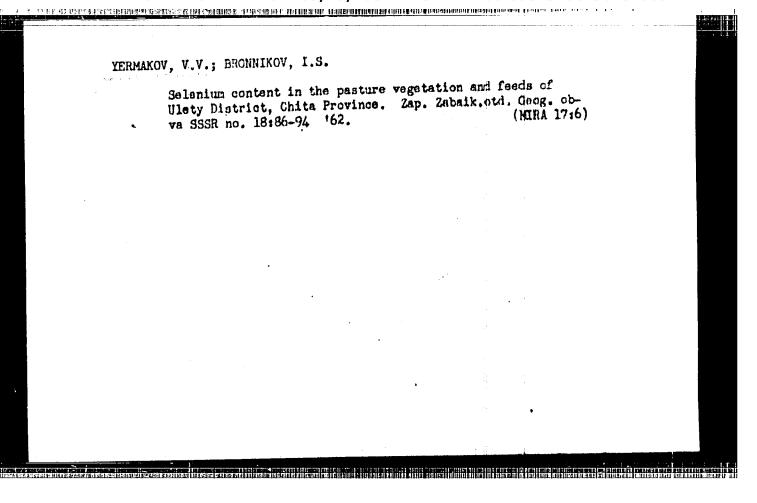
Fig. 1. 1 - shaft; 2 - disengaging coupling section; 3 - glass-reinforced plastic layer; 4 - tapered split bushing; 5 - subsequent layer of glass-reinforced plastic; 6 - power spar; 7 - auxiliary spars; 8 - disks



layer of plastic deposited on the framework to produce the operating profile of the blade. The blade framework includes a power spar and auxiliary spars which form (in the transverse cross section) the operating profile. The blade carries on its end part a set of balancing disks. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Feb65

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YERMAKOV, V. V.
Ostetrics
Dissertation: "Birth by Brow Fresentation." Cand Med Sci, Second Moscow Medical Instiment I. V. Stalin, 8 Mar 54. (Meditsinskiy Rabotnik, Moscow, 2 Mar 54).
SG: SUM 213 20 Sep 1954

Pages from the story of the role of medicine in the defense of Sevastopol; on the 100th anniversary of the defense of Sevastopol.

Trudy IMI 2:313-322 '55 : (MIRA 11:8)

1. Kafedra istorii meditsiny (sav. - dots. H.A. Tikotin) Pervogo Leningradskogo meditsinskogo instituta imeni akademika I.P. Pavlove. (SHVASTOPOL-HISTORY) (MEDICINE, MILITARY)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YEMAKOV, V.V., kandidat meditsinskikh nauk Biomechanics of birth in cases of brow presentation. Akmeb. 1 gin. no.4:32-35 Jl-Ag '55. (MLEA 8:11) 1. Is knfedry akusherstva i ginekologii (sav.prof. I.F.Shordania) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni I.V.Stalim. (LAROR, PRESENTATION brow, biomechanics)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

Plea for improvement in training pharmaciets with higher education. Apt.delo 4 no.5:27-30 8-0 '55 (MLRA 8:12)

1. Kandidat meditsinskikh mauk sam.mach. GUUE Ministerstva sdravookhraneniya SSSR V.V.Yermskov. (PHARMACY, education in Russia)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YEMANOV, V.V., kandidat moditeinskikh nauk; SAVCHEMO, M.G.

Institutes for postgraduate training of physicians and their rele in specializing and advanced training for physicians in the U.S.S.R. Sov.med. 19 mo.6:68-76 Je '55. (MEAR 8:9)

1. Is Glavnogo upravleniya uchebayni sevelenismi Ministerstva Edravockhraneniya SSCR. (MUCATION, MEDICAL, in Bassia, postgraduate training)

(SPECIALISM, in Russia, postgraduate training)

YEPAKOV, V.V., kandidat meditsinskikh nauk

YEPAKOV, V.V., kandidat meditsinskikh nauk

Etiology of brow presentation in labor. Sov.med.19 no.3:45-51
Ag '55.

1. Is kafedry akusherstva i ginekologii (sav.-prof. I.F.Zhordania)
lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta ineni
I.V.Stalima.

(LABOR PRESENTATION,
brow, etiel.)

YERMAKOV, V.V., kandidat meditsinskikh nauk (Moskva); SOVCHERKO, M.G.
(Moskva)

Advanced training by correspondence for directing personnel in the public health service. Sov.med. 20 no.7:76-77 Jl *56.
(FUBLIC HAMPH, educ. (MLRA 9:10)
in Russia, correspondence courses for leading teams)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

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... YERMAKOV, V. V.

3-5-14/38

AUTHORS:

Yermakov, V.V., Doctor of Medical Science, Dotsent and Staro-

binskiy, I.M., Professor

TITLE:

To Solve in a More Active Way the Tasks Set by "The Letter I-100" (Aktivneye reshat' zadachi, postavlennyye "Pis'mom I-100") Success Depends on the Initiative of the Chairs (Uspekh zavisit ot initsiativy kafedr)

PERIODICAL:

Vestnik wysshey Shkoly, 1957, Mr 5, pp 38-41 (USSR)

ABSTRACT:

The author states that measures taken in accordance with the instructions of "Letter I-100" are now beginning to show results.

The schedule of the first Medical Institute of Moscow provides 5 days school work and one day practical work at chairs, clinics and laboratories. At the clinic of Professor N.N. Yelanskiy, for instance, (IVth course of the medical faculty) there were 39 operations performed in three days, in which students assisted. 14 operations were carried out by the students under the direct supervision of the professor.

There are, however, medical institutes, which do not comply with the "Letter I-100". G. Savastenko, Dotsent at the Minsk Medical Institute states in the newspaper "The Soviet

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3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100". Success Depends on the Initiative of the Chairs

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Medical Man" (Sovetskiy Medik) No 6-7, 1957, that some chairs still do not take these instructions seriously enough. This is true of the Voronezh Medical Institute. The collective of this Institute consisting of 100 Professors, Dotsents and Candidates of Science, and 180 Teachers and Assistants, do not show enough interest in this very important document.

The author believes that a number of lectures can be reduced for various disciplines, such as "Physiology" (132 hours), "Anatomy of Man" (118 hours) "Biology" (86 hours). There is also the possibility of reducing the group practical work. The author proposes to divide the practical work into three sections. First: work of demonstrative character, e.g. practical work on physiology and pathological physiology; second: more active, but supervised work (e.g. surgical obstetrics, surgery); third: independent work. Students of the VIth course should not take part in the clinical work of the IInd and IVth course, as is done at the Ist Medical Institute of Moscow. Attention is invited to the work of the Minsk, Vitebsk, Stavropol' and Stalino Medical In-

Card 2/4

3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100". Success Depends on the Initiative of the Chairs

stitutes which prepare students for their future working conditions and practical work.

The system of examinations on practical work must be carefully considered. The author suggests the teacher examine the student on his work but not by a systematic test. The introduction of intermediate examinations in the IInd course on anatomy, hystology, physiology and biological chemistry was made for the purpose of improving the quality of training and permitting the Vuzes to expell unsuccessful or lazy students. This right, however, is not efficiently utilized.

The author states that a new system of distribution of scholarships will systematize the evaluation of a student's knowledge and increase the requirements in examinations. Because of the increased independence in their instruction and more free time for this work, the students need good manuals. The activity of professors and teachers in this matter must be increased to assure the success of "Letter I-100".

It appears that many medical institutes neglect instructivemethodic work. This, however, is not the case with the Riga Institute of Medicine, where good results have been obtained.

Card 3/4

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3-5-14/38

To Solve in a More Active Way the Tasks Set by "The Letter I-100", Success Depends on the Initiative of the Chairs

ASSOCIATION: The Administration of Staff and Educational Institutions of

the Ministry of Health, USSR (Upravientye kadrov i ucheb-

nykh zavedeniy Ministerstva zdravookhraneniya SSSR)

AVAILABLE: Library of Congress

Card 4/4

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JEMAROV, V.V.; SAVCEMIO, M.G. (Moskva).

Graduate studies by correspondence of the leaders of public health workers. Ceek. sdravot. 5 no.1:42-45 Jan 57.

(FUBLIC HEALTH, educ. graduate studies by correspondence (Cs))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.V., dotsent; STAROBINEKIY, I.M., prof.; KOZLOV, A.M., dotsent

Forty years of higher medical education in the U.S.S.R. Sov.sdrav.
(MIRA 10:12)

(EDUCATION, MEDICAL, hist.
in Russia)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

YERMAKOV, V.V., dotsent; STAROBINSKIY, I.M., prof.

Problems of prophylaxis in higher medical education. Sov.med. 21 (MIRA 11:1)

1. Is Upravleniye kadrov i chebnykh savedeniy Ministerstva sdravo-okhraneniye SSSR. (MUDICINE, PREVENTIVE, educ.)

THRMAKOV. V.V., dotsent., SAVCHENKO, M.G.

The present status and the future of regular and advanced training

for physicians in public health work. Sov.sdrav. 17.no.10:7-10 0 158 (NIRA 11:11)

1. Is Upravieniya kadrov i uchebnykh savedeniy Ministerstva sdravookhraneniya SSSR.

(SANITATION, educ.
in Russia (Rus))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810007-7"

TERMAKOV, V.V. State of industrial practice of students in medical institutes. Sov.med. 22 no.7:145-150 Jl '58 (MIRA 11:10) 1. Essectitel' nachal'nika Upravleniya kadrov i uchebnykh savedeniy Ministeretva sdravookhraneniya SSSR; (SCHOOLS, Medical med. student train. in indust. practice (Rus)) (INDUSTRIAL HTGINES, same (Rus))

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